



United States Department of the Interior

U. S. GEOLOGICAL SURVEY
New Mexico Water Science Center
Albuquerque, New Mexico 87110

MEMORANDUM FOR RECORD

January 28, 2021

Attention: Bryan Banks, AFCEC

Through: Kimberly Beisner, Water Quality Specialist, NMWSC
Stuart Norton, Supervisory Hydrologist, NMWSC

From: Kate Wilkins, Hydrologic Technician, NMWSC

Subject: Quarterly Organic Data and Groundwater Level Measurement Transmittal for Kirtland Air Force Base (KAFB) Bulk Fuels Facility (BFF) Ethylene Dibromide (EDB) Plume Sentinel Wells for the October 2020 to December 2020 Quarter.

The USGS installed sentinel wells downgradient of the KAFB BFF EDB plume and upgradient from community water-supply wells, as a means of providing advanced warning of water quality in the vicinity of community water-supply wells. Samples are collected from the sentinel wells on a quarterly basis in accordance with the USGS fundamental science practices. This memorandum provides a summary of organic data results and the groundwater level measurements for the USGS KAFB BFF EDB plume Sentinel Wells (Figure 1, Table 1). Laboratory analytical results for the quarter from October 2020 through December 2020 are presented in Table 2 and discrete groundwater level measurements are presented in Table 3.

Site Descriptions

All the sentinel well sites (Figure 1, Table 1) are located in urban areas. The Trumbull well nest is located in a parking lot at the intersection of Trumbull Avenue SE and Mesilla Street SE. The surrounding neighborhood has a high volume of vehicle traffic. The Cesar Chavez well nest is located behind the Cesar E. Chavez Community Center, and the site is separated from vehicle traffic. The Southern well nest is located east of Phil Chacon Park, and the site is generally separated from vehicle traffic. The VA well nest is located next to Randolph Road SE, which has a high volume of vehicle traffic.

Sampling Period

Samplers were deployed between July 6, 2020, and July 9, 2020. Environmental samples were collected between October 19, 2020, and October 22, 2020.

Sampling Protocols

Samples were collected using dual membrane diffusion samplers following USGS sampling protocols outlined in the National Field Manual for the collection of water-quality data (U.S. Geological Survey, variously dated). The quality assurance samples collected include a source solution blank, trip blank, field blanks, equipment blank, matrix spike, and replicate.

Sample Analysis

In November 2018, USGS began using the USGS National Water Quality Laboratory (NWQL) for organic compound analyses at the USGS KAFB EDB sentinel wells in order to improve data quality and ensure timely delivery of the data. Organic compound analysis is completed by NWQL using method O-4127-96 (Connor and others, 1998). Effective October 1, 2019, laboratory reporting thresholds were modified to reflect detection limits of EPA Method SW8260C and EPA Method SW8011. The method is approved to be in conformance with the National Environmental Laboratory Accreditation Program (NELAP).

Data Review

The data presented herein have been reviewed and approved by USGS staff, as outlined in the work plan (Travis, 2017). Organic data results are reported in Table 2. No detections were found in the environmental samples. Groundwater level measurements are presented in Table 3. The data reviewed within this memorandum were in accordance with the quality assurance requirements outlined in the work plan.

The data are publicly available via NWIS at <https://waterdata.usgs.gov/nwis/>. If you have any questions regarding the data, please feel free to contact me at 505-830-7946 or klwilkins@usgs.gov.

Sincerely,

**KATE
WILKINS** Digitally signed
by KATE WILKINS
Date: 2021.01.28
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Kate Wilkins
 Project Chief
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cc: Sheen Kottkamp, AFCEC
 Kathryn Lynnes, AFCEC
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 Bernard Bockisch, EA Engineering
 Stuart Norton, USGS
 Kimberly Beisner, USGS
 Michael Johnson, USGS
 Erik Storms, USGS

References:

Connor, B.F., Rose, D.L., Noriega, M.C., Murtagh, L.K., and Abney, S.R., 1998, Methods of analysis by the U.S. Geological Survey National Water Quality Laboratory--Determination of 86 volatile organic compounds in water by gas chromatography/mass spectrometry, including detections less than reporting limits: U.S. Geological Survey Open-File Report 97-829, 78 p.

Travis, R., 2017, Work Plan for The Quarterly Sampling of the Kirtland Air Force Base Bulk Fuels Facility Plume Sentinel Wells. 31 p.

U.S. Environmental Protection Agency, 1992, 1,2-Dibromoethane and 1,2-dibromo-3-chloropropane by microextraction and gas chromatography: U.S. Environmental Protection Agency 13 p., accessed August 17, 2020, at <https://www.epa.gov/sites/production/files/2015-12/documents/8011.pdf>.

U.S. Environmental Protection Agency, 2006, Volatile organic compounds by gas chromatography/mass spectrometry (GC/MS): U.S. Environmental Protection Agency 92 p., accessed August 17, 2020, at https://www.epa.gov/sites/production/files/2018-06/documents/method_8260c_rev_3_8-1-2006.pdf.

U.S. Geological Survey, variously dated, National field manual for the collection of water-quality data: U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chaps. A1-A10, available online at <http://pubs.water.usgs.gov/twri9A>.

Figure 1: Location of Kirtland Air Force Base Bulk Fuels Facility, USGS sentinel wells, and community water supply wells, Albuquerque and Kirtland Air Force Base, New Mexico.

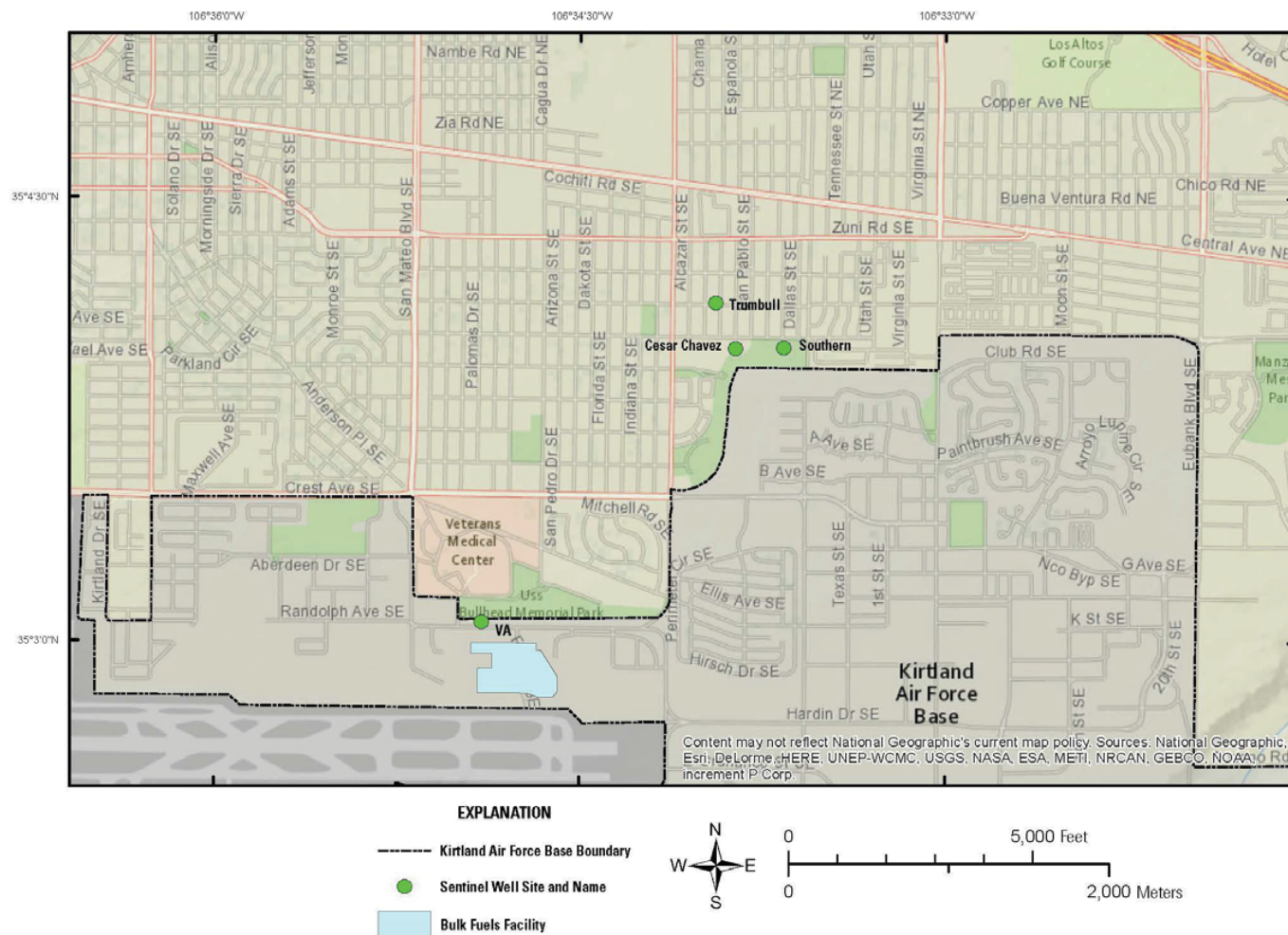


Table 1: Sentinel Well Site Information

Site Identification Number	Station Name	Construction Completion Date	Well Depth (feet below land surface (bls))	Well Diameter (inches)	Screened Interval (feet bls)
Cesar Chavez Sentinel Wells					
350359106335201	10N.04E.30.134A CESAR CHAVEZ SENTINEL WELL 1A	11/20/2014	519	2.5	459 - 509
350359106335202	10N.04E.30.134B CESAR CHAVEZ SENTINEL WELL 1B	10/28/2014	620	2.5	580 - 600
350359106335203	10N.04E.30.134C CESAR CHAVEZ SENTINEL WELL 1C	10/28/2014	1,040	2.5	1,000 - 1,020
350359106335204	10N.04E.30.134D CESAR CHAVEZ SENTINEL WELL 1D	10/28/2014	1,338	2.5	1,298 - 1,318
Southern Sentinel Wells					
350359106333901	10N.04E.30.144A SOUTHERN SENTINEL WELL 1A	12/11/2014	538	2.5	468 - 518
350359106333902	10N.04E.30.144B SOUTHERN SENTINEL WELL 1B	3/22/2015	610	2.5	570 - 590
350359106333903	10N.04E.30.144C SOUTHERN SENTINEL WELL 1C	3/22/2015	1,090	2.5	1,050 - 1,070
350359106333904	10N.04E.30.144D SOUTHERN SENTINEL WELL 1D	3/22/2015	1,400	2.5	1,360 - 1,380
Trumbull Sentinel Wells					
350408106335601	10N.04E.30.1243A TRUMBULL-NEST-1A	4/18/2013	522	2.5	437 - 467; 467 - 517
350408106335602	10N.04E.30.1243B TRUMBULL-NEST-1B	4/18/2013	1,018	2.5	998 - 1,008
350408106335603	10N.04E.30.1243B TRUMBULL-NEST-1C	4/18/2013	1,432	2.5	1,412 - 1,422
VA Sentinel Wells					
350304106345401	10N.03E.36.1433A T10N.R03E.S36.1433A Shallow VA Sentinel Well	4/26/2016	660	3	620 - 640
350304106345402	10N.03E.36.1433B T10N.R03E.S36.1433A Middle VA Sentinel Well	4/26/2016	860	3	820 - 840
350304106345403	10N.03E.36.1433C T10N.R03E.S36.1433A Deep VA Sentinel Well	4/26/2016	1,040	3	1,000 - 1,020

Table 2
Groundwater Analytical Results for Sentinel Wells, October - December 2020

			Site Name:			Cesar Chavez 1A			Cesar Chavez 1B			Cesar Chavez 1C			Cesar Chavez 1D		
			Station Identification:			350359106335201			350359106335202			350359106335203			350359106335204		
			Sample Date:			10/20/2020 1300			10/20/2020 1200			10/20/2020 1100			10/20/2020 1000		
			Sample Type:			Environmental			Environmental			Environmental			Environmental		
			Sample Depth (ft bgs):			496			591			1002			1303		
			Site Elevation (ft above sea level):			5350.33			5350.23			5350.23			5350.23		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	Project Screening Level ^c	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method O-4127-96 (µg/L)	1,2-dibromoethane ^d	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs		Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

			Site Name:			Southern 1A			Southern 1B			Southern 1C			Southern 1D		
			Station Identification:			350359106333901			350359106333902			350359106333903			350359106333904		
			Sample Date:			10/21/2020 1200			10/21/2020 1100			10/21/2020 1000			10/21/2020 900		
			Sample Type:			Environmental			Environmental			Environmental			Environmental		
			Sample Depth (ft bgs):			506			580			1062			1370		
			Site Elevation (ft above sea level):			5363.20			5363.10			5363.10			5363.10		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	Project Screening Level ^c	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method O-4127-96 (µg/L)	1,2-dibromoethane ^d	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs		Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

			Site Name:			Trumbull 1A			Trumbull 1B			Trumbull 1C		
			Station Identification:			350408106335601			350408106335602			350408106335603		
			Sample Date:			10/19/2020 1200			10/19/2020 1100			10/19/2020 1000		
			Sample Type:			Environmental			Environmental			Environmental		
			Sample Depth (ft bgs):			484			1000			1414		
			Site Elevation (ft above sea level):			5337.76			5337.76			5337.76		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	Project Screening Level ^c	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method O-4127-96 (µg/L)	1,2-dibromoethane ^d	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs		Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

USGS Sentinel Well Data, October 19-22, 2020

Table 2
Groundwater Analytical Results for Sentinel Wells, October - December 2020

			Site Name:			VA Shallow			VA Middle			VA Deep		
			Station Identification:			350304106345401			350304106345402			350304106345403		
			Sample Date:			10/22/2020 1100			10/22/2020 1000			10/22/2020 900		
			Sample Type:			Environmental			Environmental			Environmental		
			Sample Depth (ft bgs):			622			820			1000		
			Site Elevation (ft above sea level):			5340.668			5340.668			5340.668		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	Project Screening Level ^c	Result	Val Qual	MRL	Result	Val Qual	MRL	Result	Val Qual	MRL
EDB	USGS Method O-4127-96 (µg/L)	1,2-dibromoethane ^d	0.1	0.05	0.05	<0.028	U	0.014	<0.028	U	0.014	<0.028	U	0.014
VOCs		Benzene	10	5	5	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Ethylbenzene	750	700	700	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Naphthalene	30	NS	30	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Toluene	750	1,000	750	<0.6	U	0.60	<0.6	U	0.60	<0.6	U	0.60
		Total Xylenes	620	10,000	620	<1.8	U	1.8	<1.8	U	1.8	<1.8	U	1.8

^a NMWQCC numeric standards per the NMAC Title 20.6.2.3101A, Standards for Ground Water of 10,000 mg/L Total Dissolved Solids Concentration or Less (NMAC 2004).
^b EPA National Primary Drinking Water Regulations, MCLs and Secondary MCLs, Title 40CFR Part 141, 143 (May 2009).
^c The project screening level was selected to satisfy the requirements of the Kirtland AFB Hazardous Waste Permit Number NM9570024423 as the lowest of (1) NMWQCC numeric standard or (2) EPA MCL.
^d 1,2-dibromoethane is reported as a MDL based on NELAP certification. The MDL for 1,2-dibromoethane is 0.014 µg/L.

µg/L = microgram per liter
bgs = below-ground surface
CFR = Code of Federal Regulations
EDB = ethylene dibromide (1,2-dibromoethane)
EPA = U.S. Environmental Protection Agency
ft = foot/feet
MCL = maximum contaminant level
MRL = USGS National Water Quality Laboratory Method Reporting Level
MDL = USGS National Water Quality Laboratory Method Detection Limit
NMAC = New Mexico Administrative Code
NMWQCC = New Mexico Water Quality Control Commission
Val Qual = validation qualifier
VOC = volatile organic compound

Results:
< = less than the limit of quantification (numerical result)

Qualifiers:
Val Quals based on criteria set by NWQL.
U = A result that is either not detected or below the Method Detection Level.

References:
New Mexico Administrative Code. 2004. State of New Mexico, Title 20.6.2 Ground and Surface Water Protection.

Table 3
Groundwater Measurements for Sentinel Wells, October - December 2020

Site Name	Station Identification	Measuring Date	Water Level (ft below land surface)
Cesar Chavez 1A	350359106335201	10/20/2020	479.41
Cesar Chavez 1B	350359106335202	10/20/2020	479.45
Cesar Chavez 1C	350359106335203	10/20/2020	483.97
Cesar Chavez 1D	350359106335204	10/20/2020	465.79
Cesar Chavez 1F	350359106335206	10/20/2020	479.08
Southern 1A	350359106333901	10/21/2020	492.90
Southern 1B	350359106333902	10/21/2020	492.88
Southern 1C	350359106333903	10/21/2020	497.86
Southern 1D	350359106333904	10/21/2020	479.05
Southern 1F	350359106333906	10/21/2020	492.83
Southern 1H	350359106333908	10/21/2020	497.59
Trumbull 1A	350408106335601	10/19/2020	465.69
Trumbull 1B	350408106335602	10/19/2020	472.86
Trumbull 1C	350408106335603	10/19/2020	452.47
VA Shallow	350304106345401	10/22/2020	463.66
VA Middle	350304106345402	10/22/2020	464.78
VA Deep	350304106345403	10/22/2020	464.47

USGS Sentinel Well Data, Octobe 19-22, 2020

APPENDIX F-1

DATA QUALITY EVALUATION REPORT – GROUNDWATER SAMPLES (OCTOBER–DECEMBER 2020)

LIST OF ACRONYMS AND ABBREVIATIONS

%	percent
AFB	Air Force Base
BFF	Bulk Fuels Facility
CCV	continuing calibration verification
DL	detection limit
DoD	Department of Defense
EB	equipment rinse blank
EDB	ethylene dibromide
ELLE	Eurofins Lancaster Laboratories Environmental, LLC
EPA	U.S. Environmental Protection Agency
GWM	groundwater monitoring
ICP	inductively coupled plasma
ICS	interference check sample
IS	internal standard
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOD	limit of detection
LOQ	limit of quantification
MS	matrix spike
MSD	matrix spike duplicate
Q4	fourth quarter of the year (October 1 through December 31)
QAPjP	Quality Assurance Project Plan (2017)
QAPP	Quality Assurance Project Plan (2020)
QC	quality control
QSM	Quality Systems Manual
RL	reporting limit
RPD	relative percent different
SDG	sample delivery group
SM	Standard Method
SW	Solid Waste
SWMU	Solid Waste Management Unit
VOA	volatile organic analysis
VOC	volatile organic compound

F-1.1 DATA QUALITY EVALUATION REPORT GROUNDWATER SAMPLES (OCTOBER–DECEMBER 2020)

F-1.1.1 Laboratory Data Quality Summary

This Data Quality Evaluation Report describes the findings of the data validation performed for the fourth quarter (Q4) 2020 groundwater monitoring (GWM) chemical analytical data collected in support of the Work Plan, Bulk Fuels Facility (BFF) Expansion of the Dissolved-Phase Plume Groundwater Treatment System Design Revision 2, Solid Waste Management Unit (SWMU) ST-106/SS-111, Kirtland Air Force Base (AFB), New Mexico (Kirtland AFB, 2017a); the Work Plan for Vadose Zone Coring, Vapor Monitoring, and Water Supply Sampling Revision 1, BFF, SWMU ST-106/SS-111, Kirtland AFB, New Mexico (Kirtland AFB, 2017b); and the Work Plan for Installation of Data Gap Monitoring Wells (Kirtland AFB, 2017c). Sampling and analysis for the Q4 2020 GWM were conducted in accordance with the procedures and overall quality control (QC) and quality assurance protocols presented in the Work Plans and Quality Assurance Project Plans (QAPjP) (Kirtland AFB, 2017a, 2017b) and the Quality Assurance Project Plan (QAPP) for Groundwater Monitoring and Interim Remedial Operations, BFF, SWMU ST106/SS-111, Kirtland AFB, New Mexico (Kirtland AFB, 2020).

Samples were collected from 161 GWM sample locations between October 1 and November 24, 2020 from the BFF monitoring well network and newly installed wells under the data gap monitoring well and vadose zone coring programs. The Q4 wells were sampled using dual membrane passive samplers or low-flow methodology.

The following field QC samples were associated with the Q4 well sampling: 17 field duplicates, four equipment rinse blanks (EBs), 71 trip blanks, and two source water blank for equipment rinse water. Groundwater samples were shipped to Eurofins Lancaster Laboratories Environmental, LLC (ELLE), Lancaster, Pennsylvania, for analysis. ELLE maintains a current Department of Defense (DoD) Environmental Laboratory Accreditation Program certification to perform the analyses required for this project. Sample analyses were performed in accordance with the following guidance documents:

- DoD Quality Systems Manual (QSM), Version 5.1.1 (DoD, 2018)
- U.S. Environmental Protection Agency (EPA) Test Methods for Evaluating Solid Waste (SW) 846, Third Edition and Updates, 1986
- Standard Methods (SM) for the Examination of Water and Wastewater, 22nd Edition (American Public Health Association, 2005)
- EPA Methods for Chemical Analysis of Water and Waste, EPA-600/4-79-020 (1983).

Q4 2020 groundwater samples were analyzed for a varying suite of analyses as shown in Appendix F-1 – Table 1. The following is a list of parameters and methods, as required per well:

- ***Volatile Organic Compounds (VOCs)***—Method SW8260C.
- ***Ethylene Dibromide (EDB)***—Method SW8011.
- ***Total Arsenic and Lead***—Method SW6020A.

- **Total Calcium, Magnesium, Potassium, and Sodium; Dissolved Iron; and Manganese**—Method SW6010C.
- **Anions (Bromide, Chloride, and Sulfate)**—Method EPA 300.0A.
- **Nitrate/Nitrite Nitrogen**—Method EPA 353.2.
- **Total Alkalinity (Bicarbonate and Carbonate)**—Method SM2320B.

Chemical analytical data for Q4 2020 were reported by ELLE in 22 sample delivery groups (SDGs). Appendix F-1 – Table 1 summarizes samples collected from monitoring wells and the associated field QC samples, collection date, laboratory SDG, and analytical parameters for the Q4 monitoring program.

A third-party subcontractor, Validata Chemical Services, Duluth, Georgia, conducted EPA Stage 2B data validation on 100 percent (%) of the Q4 2020 sample data associated with the BFF monitoring network.

Analytical data validation was performed using the quality criteria specified in the following analytical guidelines and methods as applicable:

- Work Plan (including QAPjP) (Kirtland AFB, 2017a)
- Work Plan (including QAPjP) (Kirtland AFB, 2017b)
- Work Plan (Kirtland AFB, 2017c) and QAPjP (Kirtland AFB, 2017a)
- QAPP (Kirtland AFB, 2020)
- DoD QSM for Environmental Laboratories, Version 5.3 (DoD, 2019)
- EPA Test Methods for Evaluating Solids Waste, Physical/Chemical Methods (SW 846, Third Edition and updates) (1986)
- American Public Health Association, Standard Methods for the Examination of Water and Wastewater, 22nd Edition (2005)
- EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020 (1983)
- EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2014a)
- EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Data Review (EPA, 2014b).

The following QC criteria were included in the EPA Stage 2B validation per the QAPjP, as applicable to the analytical method:

- Sample preservation and extraction and analysis holding times
- Laboratory method blank contamination
- Surrogate spike and internal standard (IS) recoveries (organic analyses)
- Laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries

- Matrix spike (MS) and matrix spike duplicate (MSD) sample recoveries
- Relative percent difference (RPD)
- Initial and continuing calibrations
- Inductively coupled plasma (ICP) interference check samples (metals)
- ICP serial dilutions (metals)
- Second column confirmation (for EDB only)
- Trip, EB, field blank, and source water blank results
- Field duplicate sample precision.

Analytical data were reviewed to evaluate precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity as defined below:

- *Precision* is expressed as the RPD between the results of replicate sample analyses: sample duplicates, LCS/LCSD, and MSDs. When analyte RPDs exceed the acceptance criteria, the data are qualified accordingly.
- *Accuracy (bias)* is demonstrated by recovery of target analytes from fortified blank and sample matrices, LCS/LCSD, and MS/MSD, respectively. For organic methods, bias is also demonstrated through recovery of surrogates from each field and QC sample. A comparison was made from the recovery of target analytes from fortified samples to the acceptance criteria defined in the QAPjPs/QAPP (Kirtland AFB, 2017a, 2017b, 2020) and DoD QSM (2019). When the acceptance criteria are not available in the QAPjPs or DoD QSM, results are compared with the laboratory in-house control limits. When these criteria are not met, the data are qualified accordingly. Bias may be indicated as high or low.
- *Representativeness* of the samples submitted for analysis is ensured by adherence to standard sampling techniques and standard analytical method protocols.
- *Comparability* of sample results is ensured through the use of approved sampling and analysis methods and comparison of sample results to historical sample data.
- *Completeness* of data is evaluated based on contractual, analytical, and technical criteria for data analysis. Technical completeness of data is used to assess overall project data completeness and is expressed as a percentage of the ratio of the number of usable data results to the total number of analytical data results. Only rejected data (R-qualified) are considered not usable to achieve project objectives.
- *Sensitivity* is determined by the ability to achieve the established method-specific reporting limits (RLs) in accordance with DoD QSM requirements and includes establishing the detection limit (DL), limit of detection (LOD), and limit of quantitation (LOQ). For this project, the laboratory reported positive results to the DL, and results between the DL and LOQ are flagged with a J-qualifier and reported as estimated data. Sensitivity will be evaluated based on comparison of the sample RLs to the project screening levels.

The following sections present the EPA Stage 2B data validation findings. The discussion summarizes data quality exceedances and their potential impact on the quality and usability of analytical results.

Appendix F-1 – Table 2 presents the definitions of data qualification and the reasons why these codes were applied to the analytical results. Appendix F-1 – Table 3 summarizes the qualified analytical data for Q4 2020 based on data validation findings.

F-1.2 DATA QUALITY FINDINGS

F-1.2.1 Sample Preservation and Sample Extraction and Analysis Holding Times (Reason Code HT)

The sample coolers and samples contained within the coolers were received intact at the laboratory at ≤ 6 degrees Celsius, per EPA guidelines. All samples were preserved appropriately per the requirements of EPA methods and SM with no exceptions. Sample holding times were evaluated by comparing (1) the sample collection date to the sample extraction date, and (2) the extraction date to the analysis date to determine if the method-specified holding times were exceeded. Q4 2020 sample extraction and analysis holding times were met for all reported sample data.

F-1.2.2 Laboratory Method Blanks (Reason Code MB)

The field sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch and each analytical method. Based on the DoD QSM requirements (2018, 2019), laboratory method blank concentrations are considered acceptable when contaminant levels in the blank are less than one-half the LOQ for target analytes and less than the LOQ for common laboratory contaminants. Low-level detections of VOCs (4-isopropyltoluene and sec-butylbenzene) were reported in the method blank samples in SDGs 410-17563-1, 410-17853-1 410-17392-1, 410-17565-1. Associated sample results were qualified “U” signifying non-detect results. There were no other analyte detections in Q4 2020 method blank samples that resulted in qualified data.

F-1.2.3 Initial and Continuing Calibration Blanks (Reason Code CB/CCB)

Initial and continuing calibration blank criteria were reviewed to ensure that the instruments were free of contamination prior to sample analysis. Based on the DoD QSM requirements (2018, 2019), calibration blank concentrations are considered acceptable when contaminant levels in the blank are less than one-half the LOQ for target analytes and less than the LOQ for common laboratory contaminants. Initial and continuing calibration blank data were within control criteria or did not result in data qualification for the Q4 2020 sample analyses.

F-1.2.4 Surrogate and Internal Standard Recoveries (Reason Code SURR/IS)

Surrogate and internal compounds are added to field and laboratory QC samples for organic analysis to evaluate the matrix effect and method performance on an individual sample basis. Surrogate and IS recoveries for the Q4 2020 sample data were within method control criteria for all samples with the exception of the EDB surrogate recovery for two samples in SDG 410-17030-1. Associated sample results were qualified “J and UJ.” Qualified Q4 2020 sample data based on surrogate recoveries are presented in Appendix F-1 – Table 3.

F-1.2.5 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precision (Reason Codes LCS/RPD)

The LCS is an aliquot of an analyte-free matrix spiked with target analytes that are prepared with each analytical batch for each analytical method. The recovery of target analytes from the LCS analysis is a measurement of method performance in an interference-free sample matrix. LCS recoveries for the Q4 2020 data were within method control limits with the exception of one LCS for manganese in SDG 410-17173-1. Associated sample results were qualified “J”. Qualified Q4 2020 sample data based on LCS recoveries are presented in Appendix F-1 – Table 3.

F-1.2.6 Matrix Spike/Matrix Spike Duplicate Recoveries and Laboratory Duplicate Sample Precision (Reason Codes MS/MSD and RPD)

The MS and MSD samples are a portion of a field sample spiked with target analytes that are prepared with each analytical batch and method as appropriate. The MS/MSD results are used to evaluate any bias introduced to the method due to matrix interference, and to measure bias and precision for each analytical batch. For some analytical parameters (inorganic and general chemistry), standard reference materials were also analyzed to determine analytical method precision and accuracy. Also discussed in this section are laboratory duplicate samples analyzed by the laboratory to assess method precision for metals analysis.

In accordance with the QAPjP requirements, the additional volume for MS/MSD samples was collected at a rate of one per 20 groundwater samples. During the Q4 2020 sampling event, eight MS/MSD samples were collected associated with the 161 monitoring well samples and analyzed for the well-specific analytical parameters as identified in Appendix F-1 – Table 1. Additional MS/MSD samples were analyzed by the laboratory as necessary to meet method and analytical batch requirements.

Sample-specific MS/MSD analyte recoveries exceeded control criteria for VOCs (chloromethane, toluene, 2-hexanone, isopropylbenzene, o-xylene), chloride, nitrate/nitrite, and alkalinity in 11 SDGs. MS/MSD RPD was also exceeded for nitrate/nitrite in two SDGs, chloromethane in one SDG and 2-hexanone and toluene in one SDG. Associated sample results were qualified “UJ” and “J.” Qualified Q4 2020 sample data based on MS/MSD recoveries are presented in Appendix F-1 – Table 3.

Laboratory duplicate/replicate samples were analyzed by the laboratory to meet metals method requirements to assess method precision. Sample results were within method control limits for the Q4 event with exception of EDB in SDG 410-17030-1 and iron in SDG 410-18029-1. Associated sample results were “J” qualified. Qualified Q4 2020 sample data based on lab duplicate sample RPD are presented in Appendix F-1 – Table 3.

F-1.2.7 Initial and Continuing Calibration Verification (Reason Code CCV)

Instrument calibration is performed for all analyses in accordance with method requirements. The linear analytical range is established for each method by analysis of calibration standards prepared at increasing concentrations that cover the expected sample concentration range. The acceptability of the initial calibration is determined by calculation of a percent relative standard deviation or coefficient. Routinely during sample analysis, the stability of the analytical system is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the instrument calibration range. The percent difference values between the relative response factor in the initial calibration and the relative response factor in the continuing calibration are reviewed to ensure instrument calibration criteria are within method control limits. Initial and continuing calibration verification (CCV) met the method-specific control criteria for the Q4 2020 analytical data with exception of VOCs, bromide, chloride, sulfate, and lead in several SDGs. Associated sample results were qualified “J and UJ”. Qualified Q4 2020 sample data based on CCV exceedances are presented in Appendix F-1 – Table 3.

F-1.2.8 Interference Check Sample (Reason Code ICS)

The interference check sample (ICS) verifies the inter-element and background correction factors for metals analysis using ICP instrumentation. The ICSs were analyzed at the required frequencies, and all ICS results are within the established control criteria for the ICP analytical methods for the Q4 2020 analytical data.

F-1.2.9 Inductively Coupled Plasma Serial Dilution (Reason Code SD)

The ICP serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. When the concentration of an analyte exceeds 50 and 100 times the DL for ICP and ICP mass spectrometry analysis, respectively, the ICP serial dilution is performed and the results between the original analysis and the diluted analysis are compared. The results of the ICP serial dilution are deemed acceptable when a percent difference between the original analysis and the diluted analysis is less than or equal to 10%. An ICP serial dilution was performed based on the above criteria for the Q4 samples as deemed appropriate. ICP serial dilution results were within control criteria for all samples and analytes for Q4 2020 data. No data were qualified based on serial dilution criteria.

F-1.2.10 Sample Confirmation (Reason Code RPD)

As required by DoD and EPA analytical method guidance, sample detections for EDB require confirmation using a second column analysis. EDB samples for Q4 2020 were analyzed by EPA Method SW8011, confirmed by a second column analysis, and reported from the primary column. Any detection of EDB on the second column is considered confirmation unless it appears to be associated with matrix interferences. There were no data reporting issues associated with EDB detections and second column confirmation for Q4 2020.

F-1.2.11 Field Blanks for Volatile Organic Compounds (Reason Code FB)

Field blanks serve as a check for possible VOCs in air associated with a sampling location. The field blanks are prepared in the field during sampling by pouring ultra-pure water into EPA-certified clean sample containers and exposing the container to the environment at a particular sample location that may be associated with airborne VOCs.

Field blank samples are collected as deemed necessary at the time of sampling based on site conditions and potential for airborne VOC contamination. During the Q4 2020 GWM event, field blank samples were not deemed necessary for collection.

F-1.2.12 Trip Blanks (Reason Code TB)

Trip blanks were prepared by the laboratory and are stored with the containers to be used for collection of aqueous samples to be analyzed for VOCs and EDB. As samples are collected for volatile-type analyses, trip blanks are placed in the cooler with the sample containers; therefore, they are exposed to any potential contamination along with the field samples. In accordance with the QAPjP/QAPP requirements, trip blank samples are to be included at a rate of one per cooler when collecting water samples for volatile organic-type analyses. A total of 71 trip blank samples were shipped during Q4 accompanying samples for VOC and EDB analysis. Low-level detections of acetone, toluene, 4-isopropyltoluene, and sec-butylbenzene were reported in Q4 trip blank samples- in five SDGs. Associated sample detections were “U” qualified. Qualified Q4 2020 sample data based on trip blank detections are presented in Appendix F-1 – Table 3.

Appendix F-1 – Table 4 summarizes the results for trip blank samples for the Q4 2020 sampling event.

F-1.2.13 Equipment Rinse Blanks (Reason Code EB)

EBs are collected in the field to assess potential contamination from sampling equipment. Results for the EB samples are used to evaluate the efficiency of equipment decontamination procedures in the field. Four EB samples and two source water blank samples were collected during the Q4 sampling event. The EB samples were prepared by rinsing the decontaminated sampling equipment with water provided by Environmental Sampling Supply (source water) or Crystal Springs water, and then collecting the final

rinse water into appropriate sample containers for analysis. The EB samples associated with the Q4 sampling event were analyzed for VOCs, EDB, and metals. Low-level detections of acetone, bromodichloromethane, toluene, lead, and manganese were detected in EB samples in four SDGs. Associated sample detects were qualified “U,” signifying non-detect data. The rinse blank sample results were acceptable to demonstrate the equipment decontamination procedures for the Q4 2020 sampling event achieved project objectives. Qualified Q4 2020 sample data based on EB detections are presented in Appendix F-1 – Table 3. Appendix F-1 – Table 4 presents the results of the Q4 2020 EB samples.

F-1.2.14 Field Duplicate Samples

In accordance with the project QAPjP/QAPP requirements (Kirtland AFB, 2017a, 2017b, 2020), field duplicate samples are collected at a frequency of 10% of the total number of groundwater samples for the Q4 event. Seventeen field duplicate samples were collected for a total of 161 groundwater samples for the Q4 event. The 10% frequency for field duplicate samples was achieved at 10.5% for Q4 2020 sampling.

Field duplicate RPD is evaluated by calculating the RPD between the parent sample and the duplicate sample. The RPD was calculated using the following equation:

$$RPD = |(S-D)/[(S+D)/2]| \times 100$$

where

- S = Sample result.
- D = Duplicate result.

Acceptable precision control criteria are established at less than or equal to 35% for water samples. The RPD was calculated between pairs of field duplicate samples when both results are reported at or above the LOQ. Field duplicate sample results exceeded the RPD for EDB in GW037-204 parent sample and GW037-604 duplicate sample resulting in “J” qualified EDB results. All other field duplicate samples achieved the acceptable precision control criterion for the Q4 sampling event. Qualified Q4 2020 sample data based on field duplicate precision are presented in Appendix F-1 – Table 3. The results for the field duplicate samples collected during Q4 2020 are presented on Appendix F-1 – Table 5. The field duplicate results demonstrate acceptable overall field sampling procedures and analytical method precision.

F-1.2.15 Estimated Sample Data Above Project Screening Levels

During Q4 2020 detections above the project screening level for EDB in three samples, 2-hexanone in two samples and iron in one sample were “J” qualified as a result of data validation and exceedance of data quality criteria for field duplicate RPD, headspace in the VOA vial used for analysis, MS/MSD RPD, CCV, and lab replicate RPD. Appendix F-1 – Table 6 presents the results for the samples with “J” qualified results above the project screening level.

F-1.2.16 Professional Judgement

Professional judgement may be applied by a third-party data validation subcontractor or the project chemist during the data review process to apply validation qualifiers based on site-specific knowledge, historical data, comparability of data, and analytical expertise. For Q4 data validation, the subcontractor qualified all VOCs in two samples (GW022-204 and GW221-204) due to the sample being analyzed from a VOA vial with headspace greater than 6-millimeters. Associated sample results were “J and UJ” qualified. Qualified Q4 2020 sample data based on headspace are presented in Appendix F-1 – Table 3.

F-1.3 COMPLETENESS

The following sections present a discussion of contractual, analytical, and technical completeness for the Q4 2020 analytical data. Completeness calculations were performed for the samples that are used for project decisions. Completeness results are presented in the following sections.

F-1.3.1 Contractual Completeness

Contractual completeness is a quantitative determination of the number of unqualified results compared to the total number of sample results expressed as a percentage, based on data qualified for QC outliers related to analytical method performance. These include data qualified for calibration or method blank contamination, missed holding times, LCS recovery, and/or precision. The contractual completeness goal is 95%. Contractual completeness was calculated as follows:

$$\text{Percent Contractual Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

Fifteen analytes were “U” and “J” qualified based on method blank contamination and LCS recovery, out of a total of 12,212 analyte results. Groundwater sample contractual completeness for Q4 is 99.8%. The 95% contractual completeness objective was achieved for all of the methods for the Q4 2020 sampling event.

F-1.3.2 Analytical Completeness

Analytical completeness is a quantitative measure of the number of unqualified data results compared to the total number of results expressed as a percentage, based on the target analytes qualified for exceedances of QC requirements associated with calibration, LCS, MS/MSD, surrogate, method precision, blank contamination, and field duplicate RPD. The analytical completeness goal is 90% for the project. Analytical completeness was calculated as follows:

$$\text{Percent Analytical Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

A total of 1,219 analytes were qualified “U,” “J,” and “UJ” based on CCV, LCS, EB, MS/MSD, surrogate, and field duplicate RPD out of a total number of 12,212 analyte results, for an analytical completeness of 90%. Analytical completeness achieved the 90% completeness objective for the Q4 2020 sampling event.

Estimated data (J and UJ-qualified) are usable to achieve project objectives. No analytical data for GWM samples were rejected (R-qualified) and qualified unusable based on analytical completeness for the Q4 2020 sampling event.

F-1.3.3 Technical Completeness

Technical completeness is a quantitative measure of the data usability based on the number of rejected data compared to the total number of sample results. The technical completeness goal for each quarterly event is equal to or greater than 95%. The technical completeness calculation considers all data that are not rejected (R-qualified) usable data to achieve project objectives. The technical completeness was calculated as follows:

$$\text{Percent Technical Completeness} = \frac{\text{Number of Usable Results}}{\text{Total Number of Results}} \times 100$$

The project data quality objectives were achieved for all methods for the Q4 sampling event. No data were rejected, and the technical completeness for the Q4 2020 groundwater data is 100% for all parameters and is provided in Appendix F-1 – Table 7.

F-1.3.4 Data Analysis Completeness

As a part of the data review process, chain-of-custody forms and project data deliverables are reviewed against Table 3-2 – Groundwater Monitoring Wells Sampled in Q4 2020 from the main report to ensure compliance with the sampling plans, and that analytical results were reported for all planned methods and samples.

Data deliverable completeness for Q4 data deliverables was determined to be 100% complete as received from the laboratory. Level 2 analytical data packages for Q4 2020 groundwater data are provided in Appendix F-2. Level 4 data packages are available upon request.

F-1.4 REPRESENTATIVENESS AND COMPARABILITY

Q4 2020 BFF well network and vadose zone well sampling was conducted in accordance with the sampling and analysis protocols and standard operating procedures documented in the Work Plans (Kirtland AFB, 2017a, 2017b, 2017c). Approved procedures were used to collect, preserve, document, and ship samples to ELLE, thus ensuring the samples collected for the Q4 2020 sampling event were representative of the project site and conditions.

Groundwater samples for VOCs and EDB analyses were collected in 40-milliliter volatile organic analysis (VOA) vials preserved with hydrochloric acid and shipped to ELLE at ≤ 6 degrees Celsius. Samples received in VOA vials were inspected to evaluate the presence of any headspace (estimated in millimeters) and documented as sample condition on the laboratory sample receipt report. Following EPA guidance and laboratory standard operating procedure, the laboratory analyzed the VOC and EDB VOA vials without headspace, if available, to ensure that the reported data were representative. The presence of bubbles in the vials could be attributed to imperfections of the septa seal and/or septa expansion and contraction due to temperature changes during shipping samples from the field to the laboratory. To minimize VOC losses and possible low-biased data reported from the laboratory, samplers performed a visual inspection of the VOA vials prior to sample shipping to avoid shipping any VOA vials with headspace to the laboratory. If large bubbles appeared in the vials upon closing the lid over the sample container, the samples were re-collected; containers were never topped off with additional volume. Analysts at the laboratory also performed a visual inspection of VOA vials prior to analysis to ensure analysis of sample vials without headspace, if available. All Q4 groundwater samples were analyzed from VOA vials without headspace with exception of two VOC samples GW022-204 and GW221-204. Associated sample results were qualified “J and UJ” signifying estimated data.

The project laboratory (ELLE) maintains current DoD Environmental Laboratory Accreditation Program certification and adhered to the analytical methods documented in the project QAPjPs and DoD QSM requirements to prepare and analyze samples and report the data. This certification ensures the comparability of the analytical results between different samples and different sampling events. For the Q4 2020 groundwater data, an EPA Stage 2B data review was performed on 100% of the analytical data to verify that the laboratory complied with the DoD QSM, project QAPjP/QAPP, and method requirements. QC results that exceeded method control criteria resulted in data qualification as presented in the previous sections. Based on a review of the completed sample collection logs, chain-of-custody forms, sample receipt forms, and laboratory data packages, the analytical data reported for the Q4 2020 monitoring event achieved the project data representativeness and comparability requirements.

F-1.5 SENSITIVITY

Data sensitivity for Q4 2020 was achieved by complying with the analytical method guidelines and RLs specified in the project QAPjP/QAPP. The analytical methods used for groundwater analysis achieved the project screening levels for the monitoring well samples: EPA National Drinking Water Regulations, Maximum Contaminant Levels (EPA, 2018); New Mexico Administrative Code Title 20 Chapter 6 Part 2.3103, Standards for Ground Water of 10,000 Milligrams per Liter Total Dissolved Solids Concentration or Less (New Mexico Administrative Code, 2018); and EPA Region 6 Regional Screening Levels for Tapwater (EPA, 2019), as applicable. Project screening levels for groundwater samples are presented in the QAPjPs, Attachment 1, Table 1-1 (Kirtland AFB, 2017a, 2017b) and QAPP Worksheet 15, Table 15-1 (Kirtland AFB, 2020).

Elevated sample RLs are associated with elevated concentrations of target analytes in the samples requiring dilution or sample matrix interference. For the analytical results, detections of target compounds reported below the LOQ are “J”-flagged as estimated values. Non-detect analytes are reported at the LOD per the DoD QSM requirements unless as noted above.

F-1.6 CONCLUSIONS

The analytical data reported for the GWM effort during Q4 2020 have been reviewed for precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity. Data quality exceedances that resulted in data qualification include the following criteria exceedances: (1) method blank, trip blank, and EB contamination, (2) CCV, (3) LCS recoveries, (4) MS/MSD recoveries and RPD, (5) surrogate recoveries, (6) headspace in VOA vials, (7) lab replicate RPD, and (8) field duplicate RPD. Analytical data are qualified as estimated detect and non-detect data results. Estimated sample data are usable to achieve project objectives. The 95% technical completeness goal was achieved for the Q4 2020 sampling event. Data are usable to achieve the project data quality objectives as qualified based on validation.

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TABLES

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Table 1
Groundwater Sample Collection Summary, Q4 2020

Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter ^a	Comments
KAFB-106001	GW001-204	10/30/2020	410-19107-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106002	GW002-204	10/20/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106003	GW003-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106004	GW004-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106005	GW005-204	10/23/2020	410-18275-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106006	GW006-204	10/29/2020	410-18906-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106007	GW007-204	10/5/2020	410-16365-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106008	GW008-204	10/21/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106008	GW008-604	10/21/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106009	GW009-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106010	GW010-204	10/22/2020	410-18275-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106010	GW010-604	10/22/2020	410-18275-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106011	GW011-204	10/1/2020	410-15842-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106012R	GW012R-204	10/2/2020	410-15948-1	EDB, VOCs, metals, anions, alkalinity	MS/MSD
KAFB-106013	GW013-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106014	GW014-204	10/29/2020	410-18906-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106014	GW014-604	10/29/2020	410-18906-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106015	GW015-204	10/13/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106016	GW016-204	10/1/2020	410-15842-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106017	GW017-204	10/19/2020	410-17749-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106017	GW017-604	10/19/2020	410-17749-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106018	GW018-204	10/28/2020	410-18906-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106019	GW019-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106020	GW020-204	10/29/2020	410-18906-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106021	GW021-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106022	GW022-204	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106023	GW023-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106024	GW024-204	10/21/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106025	GW025-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106026	GW026-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106027	GW027-204	10/1/2020	410-15842-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106028	GW028-204	10/22/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	MS/MSD
KAFB-106029	GW029-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106030	GW030-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106031	GW031-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106032	GW032-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	MS/MSD
KAFB-106033	GW033-204	10/8/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—

Table 1
Groundwater Sample Collection Summary, Q4 2020

Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter ^a	Comments
KAFB-106034	GW034-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106035	GW035-204	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106036	GW036-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106037	GW037-204	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106037	GW037-604	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106038	GW038-204	10/5/2020	410-16365-1	EDB, VOCs, metals, anions, alkalinity	MS/MSD
KAFB-106039	GW039-204	10/5/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106040	GW040-204	10/7/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106041	GW041-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106042	GW042-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106043	GW043-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106044	GW044-204	10/1/2020	410-15842-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106044	GW044-604	10/1/2020	410-15842-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106045	GW045-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106046	GW046-204	10/20/2020	410-17853-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106047	GW047-204	10/20/2020	410-17853-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106048	GW048-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106049	GW049-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106050	GW050-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106051	GW051-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106051	GW051-604	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106052	GW052-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106053	GW053-204	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106054	GW054-204	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106055	GW055-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106057	GW057-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106058	GW058-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106059	GW059-204	10/23/2020	410-18275-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106060	GW060-204	10/20/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106061	GW061-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106062	GW062-204	10/20/2020	410-17853-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106063	GW063-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106064	GW064-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106065	GW065-204	10/19/2020	410-17853-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106066	GW066-204	10/16/2020	410-17563-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106067	GW067-204	10/19/2020	410-17853-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106068	GW068-204	10/16/2020	410-17565-1	EDB, VOCs, metals, anions, alkalinity	—

Table 1
Groundwater Sample Collection Summary, Q4 2020

Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter ^a	Comments
KAFB-106069	GW069-204	10/16/2020	410-17565-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106070	GW070-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106070	GW070-604	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106071	GW071-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106072	GW072-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106073	GW073-204	10/12/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106074	GW074-204	10/12/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106075	GW075-204	10/23/2020	410-18275-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106076	GW076-204	10/30/2020	410-19107-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106076	GW076-604	10/30/2020	410-19107-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106077	GW077-204	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106078	GW078-204	10/20/2020	410-17853-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106079	GW079-204	10/30/2020	410-19107-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106080	GW080-204	11/24/2020	410-22058-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106081	GW081-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106082	GW082-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106083	GW083-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106084	GW084-204	10/6/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106085	GW085-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106085	GW085-604	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106086	GW086-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106087	GW087-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106088	GW088-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106089	GW089-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106090	GW090-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106091	GW091-204	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106091	GW091-604	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106092	GW092-204	10/8/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106093	GW093-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106094	GW094-204	10/19/2020	410-17749-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106095	GW095-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	MS/MSD
KAFB-106096	GW096-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106096	GW096-604	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106097	GW097-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106098	GW098-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106099	GW099-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106100	GW100-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—

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Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter ^a	Comments
KAFB-106101	GW101-204	10/14/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106102	GW102-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106103	GW103-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106104	GW104-204	10/13/2020	410-17173-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106105	GW105-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106106	GW106-204	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106106	GW106-604	10/8/2020	410-16798-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106107	GW107-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106149-484	GW149-484-204	10/21/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106151-484	GW151-484-204	10/21/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106151-484	GW151-484-604	10/21/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106152-484	GW152-484-204	10/21/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106153-484	GW153-484-204	10/21/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106201	GW201-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106202	GW202-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106203	GW203-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106204	GW204-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106205	GW205-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106206	GW206-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106207	GW207-204	10/5/2020	410-16365-1	EDB, VOCs, metals, anions, alkalinity	MS/MSD
KAFB-106208	GW208-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106208	GW208-604	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106209	GW209-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106212	GW212-204	10/9/2020	410-16827-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106213	GW213-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106214	GW214-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106215	GW215-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106216	GW216-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	MS/MSD
KAFB-106217	GW217-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106218	GW218-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106219	GW219-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106220	GW220-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106221	GW221-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106222	GW222-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106223	GW223-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106224	GW224-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106225	GW225-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—

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Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter ^a	Comments
KAFB-106225	GW225-604	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106226	GW226-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106227	GW227-204	10/7/2020	410-16534-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106229	GW229-204	10/9/2020	410-16827-1	EDB	—
KAFB-106230	GW230-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106231	GW231-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106232	GW232-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106235-438	GW235-438-204	10/5/2020	410-16365-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106235-472	GW235-472-204	10/5/2020	410-16197-1	EDB, VOCs, metals, anions, alkalinity	MS/MSD
KAFB-106235-501	GW235-501-204	10/5/2020	410-16365-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106236-436	GW236-436-204	10/5/2020	410-16365-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106236-470	GW236-470-204	10/5/2020	410-16365-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106236-499	GW236-499-204	10/5/2020	410-16365-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106240-449	GW240-449-204	10/15/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106241-428	GW241-428-204	10/12/2020	410-17030-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106242-418	GW242-418-204	10/6/2020	410-16376-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106243-425	GW243-425-204	10/13/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106244-445	GW244-445-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106245-460	GW245-460-204	10/14/2020	410-17392-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106247-450	GW247-450-204	10/14/2020	410-17330-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106S1-447	GWS1-447-204	10/21/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106S2-451	GWS2-451-204	10/22/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106S3-449	GWS3-449-204	10/22/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106S4-446	GWS4-446-204	10/22/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106S5-446	GWS5-446-204	10/22/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106S5-446	GWS5-446-604	10/22/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	Field Duplicate
KAFB-106S7-451	GWS7-451-204	10/22/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106S8-451	GWS8-451-204	10/21/2020	410-18029-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-106S9-447	GWS9-447-204	10/21/2020	410-18162-1	EDB, VOCs, metals, anions, alkalinity	—
KAFB-3411	GW3411-204	10/2/2020	410-15948-1	EDB, VOCs, metals, anions, alkalinity	—
Equipment Blank	ER204-01	10/2/2020	410-15948-1	EDB, VOCs, Metals	—
Equipment Blank	ER204-02	10/21/2020	410-18162-1	EDB, VOCs, Metals	—
Equipment Blank	ER204-03	10/28/2020	410-18906-1	EDB, VOCs, Metals	—
Equipment Blank	ER204-04	11/20/2020	410-22058-1	EDB, VOCs, Metals	—
Source Water Blank	SWB204-01	10/15/2020	410-17563-1	EDB, VOCs, Metals	—
Source Water Blank	SWB204-02	10/15/2020	410-17563-1	EDB, VOCs, Metals	—
Trip Blank	TB204-01	10/1/2020	410-15842-1	EDB, VOCs	—

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Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter^a	Comments
Trip Blank	TB204-02	10/1/2020	410-15842-1	EDB, VOCs	—
Trip Blank	TB204-03	10/1/2020	410-15842-1	EDB, VOCs	—
Trip Blank	TB204-04	10/2/2020	410-15948-1	EDB, VOCs	—
Trip Blank	TB204-05	10/2/2020	410-15948-1	EDB, VOCs	—
Trip Blank	TB204-06	10/5/2020	410-16365-1	EDB, VOCs	—
Trip Blank	TB204-07	10/5/2020	410-16197-1	EDB, VOCs	—
Trip Blank	TB204-08	10/5/2020	410-16365-1	EDB, VOCs	—
Trip Blank	TB204-09	10/5/2020	410-16365-1	EDB, VOCs	—
Trip Blank	TB204-10	10/5/2020	410-16365-1	EDB, VOCs	—
Trip Blank	TB204-11	10/6/2020	410-16376-1	EDB, VOCs	—
Trip Blank	TB204-12	10/6/2020	410-16376-1	EDB, VOCs	—
Trip Blank	TB204-13	10/6/2020	410-16376-1	EDB, VOCs	—
Trip Blank	TB204-14	10/6/2020	410-16376-1	EDB, VOCs	—
Trip Blank	TB204-15	10/6/2020	410-16376-1	EDB, VOCs	—
Trip Blank	TB204-16	10/7/2020	410-16534-1	EDB, VOCs	—
Trip Blank	TB204-17	10/7/2020	410-16534-1	EDB, VOCs	—
Trip Blank	TB204-18	10/7/2020	410-16534-1	EDB, VOCs	—
Trip Blank	TB204-19	10/7/2020	410-16534-1	EDB, VOCs	—
Trip Blank	TB204-20	10/7/2020	410-16534-1	EDB, VOCs	—
Trip Blank	TB204-21	10/7/2020	410-16534-1	EDB, VOCs	—
Trip Blank	TB204-22	10/7/2020	410-16534-1	EDB, VOCs	—
Trip Blank	TB204-23	10/8/2020	410-16798-1	EDB, VOCs	—
Trip Blank	TB204-24	10/8/2020	410-16798-1	EDB, VOCs	—
Trip Blank	TB204-25	10/8/2020	410-16798-1	EDB, VOCs	—
Trip Blank	TB204-26	10/8/2020	410-16798-1	EDB, VOCs	—
Trip Blank	TB204-27	10/8/2020	410-16798-1	EDB, VOCs	—
Trip Blank	TB204-28	10/9/2020	410-16827-1	EDB, VOCs	—
Trip Blank	TB204-29	10/9/2020	410-16827-1	EDB, VOCs	—
Trip Blank	TB204-30	10/9/2020	410-16827-1	EDB, VOCs	—
Trip Blank	TB204-31	10/9/2020	410-16827-1	EDB, VOCs	—
Trip Blank	TB204-32	10/12/2020	410-17030-1	EDB, VOCs	—
Trip Blank	TB204-33	10/12/2020	410-17030-1	EDB, VOCs	—
Trip Blank	TB204-34	10/12/2020	410-17030-1	EDB, VOCs	—
Trip Blank	TB204-35	10/12/2020	410-17030-1	EDB, VOCs	—
Trip Blank	TB204-36	10/13/2020	410-17173-1	EDB, VOCs	—
Trip Blank	TB204-37	10/13/2020	410-17173-1	EDB, VOCs	—
Trip Blank	TB204-38	10/13/2020	410-17173-1	EDB, VOCs	—

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Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter^a	Comments
Trip Blank	TB204-39	10/13/2020	410-17173-1	EDB, VOCs	—
Trip Blank	TB204-40	10/13/2020	410-17173-1	EDB, VOCs	—
Trip Blank	TB204-41	10/13/2020	410-17173-1	EDB, VOCs	—
Trip Blank	TB204-42	10/14/2020	410-17330-1	EDB, VOCs	—
Trip Blank	TB204-43	10/14/2020	410-17330-1	EDB, VOCs	—
Trip Blank	TB204-44	10/14/2020	410-17330-1	EDB, VOCs	—
Trip Blank	TB204-45	10/14/2020	410-17330-1	EDB, VOCs	—
Trip Blank	TB204-46	10/14/2020	410-17330-1	EDB, VOCs	—
Trip Blank	TB204-47	10/15/2020	410-17392-1	EDB, VOCs	—
Trip Blank	TB204-48	10/15/2020	410-17392-1	EDB, VOCs	—
Trip Blank	TB204-49	10/15/2020	410-17392-1	EDB, VOCs	—
Trip Blank	TB204-50	10/15/2020	410-17392-1	EDB, VOCs	—
Trip Blank	TB204-51	10/16/2020	410-17565-1	EDB, VOCs	—
Trip Blank	TB204-52	10/16/2020	410-17563-1	EDB, VOCs	—
Trip Blank	TB204-53	10/19/2020	410-17749-1	EDB, VOCs	—
Trip Blank	TB204-54	10/20/2020	410-17853-1	EDB, VOCs	—
Trip Blank	TB204-55	10/20/2020	410-17853-1	EDB, VOCs	—
Trip Blank	TB204-56	10/21/2020	410-18029-1	EDB, VOCs	—
Trip Blank	TB204-57	10/21/2020	410-18029-1	EDB, VOCs	—
Trip Blank	TB204-58	10/21/2020	410-18029-1	EDB, VOCs	—
Trip Blank	TB204-59	10/21/2020	410-18029-1	EDB, VOCs	—
Trip Blank	TB204-60	10/22/2020	410-18162-1	EDB, VOCs	—
Trip Blank	TB204-61	10/22/2020	410-18162-1	EDB, VOCs	—
Trip Blank	TB204-62	10/22/2020	410-18162-1	EDB, VOCs	—
Trip Blank	TB204-63	10/22/2020	410-18162-1	EDB, VOCs	—
Trip Blank	TB204-64	10/23/2020	410-18275-1	EDB, VOCs	—
Trip Blank	TB204-65	10/23/2020	410-18275-1	EDB, VOCs	—
Trip Blank	TB204-66	10/29/2020	410-18906-1	EDB, VOCs	—
Trip Blank	TB204-67	10/29/2020	410-18906-1	EDB, VOCs	—
Trip Blank	TB204-68	10/30/2020	410-19107-1	EDB, VOCs	—
Trip Blank	TB204-69	10/30/2020	410-19107-1	EDB, VOCs	—
Trip Blank	TB204-70	11/24/2020	410-22058-1	EDB, VOCs	—
Trip Blank	TB204-71	11/24/2020	410-22058-1	EDB, VOCs	—

Table 1
Groundwater Sample Collection Summary, Q4 2020

Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter ^a	Comments
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^aAnalytical methods include: Method SW8260C for VOCs; Method SW8011 for EDB; Methods SW6010C/6020A for total metals (calcium, potassium, magnesium, sodium /arsenic and lead); Method SW6010C for dissolved iron and manganese. Anions analyses include Method E300.0A for bromide, chloride and sulfate; Method E353.2 for nitrate/nitrite. Alkalinity is analyzed by Method SM2320B.

— = no comments

EDB = ethylene dibromide

ID = identification

MS = matrix spike

MSD = matrix spike duplicate

VOCs = volatile organic compounds

Table 2
Data Qualification Flags and Reason Codes

Data Qualifier Definitions for Data Validation	
Qualifier	Definition
	No Qualifier indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the detection limit. The value associated with the U-qualifier is the limit of detection.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated, although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The analyte was analyzed for, but the presence <u>or</u> absence of the analyte has not been verified. Re-sampling and re-analysis may be necessary to confirm or deny the presence of the analyte. Results are rejected, and data are <u>unusable</u> for any purposes.
X	The sample results were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project QC criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (includes project chemist).

Reason Codes for Data Validation	
Reason Code	Description
CB/CCB	Calibration blank or continuing calibration blank outside of control limits
CCV	Calibration verification outside of control limits
EB	Equipment rinse blank contamination
FB	Field blank contamination
FD	Field duplicate sample results out of control criteria
HT	Holding time exceedance
ICS	Interference check sample
LCS	Laboratory control sample recovery out of control criteria
MB	Method blank contamination
MS/MSD	Matrix spike/ matrix spike duplicate recovery outside of control criteria
RPD	Relative percent difference outside of control limits
SD	ICP serial dilution out of control criteria
SURR	Surrogate recovery outside of control limits
TB	Trip blank contamination

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106001	GW001-204	410-19107-1	LF	N	Acetone	J	Continuing Calibration Verification
KAFB-106002	GW002-204	410-18029-1	LF	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106002	GW002-204	410-18029-1	LF	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106003	GW003-204	410-17173-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106003	GW003-204	410-17173-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106003	GW003-204	410-17173-1	LF	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106003	GW003-204	410-17173-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106003	GW003-204	410-17173-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106003	GW003-204	410-17173-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106003	GW003-204	410-17173-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106004	GW004-204	410-17330-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106004	GW004-204	410-17330-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106004	GW004-204	410-17330-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106004	GW004-204	410-17330-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106005	GW005-204	410-18275-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106005	GW005-204	410-18275-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106005	GW005-204	410-18275-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106005	GW005-204	410-18275-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106005	GW005-204	410-18275-1	LF	N	Nitrogen as nitrate + nitrite	J	MS/MSD Recovery and RPD
KAFB-106005	GW005-204	410-18275-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106006	GW006-204	410-18906-1	LF	N	Acetone	UJ	Continuing Calibration Verification, Equipment Blank ^a
KAFB-106006	GW006-204	410-18906-1	LF	N	Lead	U	Equipment Blank
KAFB-106007	GW007-204	410-16365-1	LF	N	1,1,1,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,1,1-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,1,2,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,1,2-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,1-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,1-Dichloropropene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2,3-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2,3-Trichloropropane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2,4-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2-Dibromo-3-chloropropane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2-Dibromoethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,3,5-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,3-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,3-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	1,4-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	2,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	2-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106007	GW007-204	410-16365-1	LF	N	4-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	4-Isopropyltoluene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Acetone	J	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Benzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Bromobenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Bromochloromethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Bromodichloromethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Carbon tetrachloride	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Chlorobenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Chloroform	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Cis-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Cis-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Dibromochloromethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Dibromomethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Dichlorodifluoromethane	J	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Ethylbenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Isopropylbenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	m- & p-Xylenes	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Methyl tert-butyl ether	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Methylene chloride	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Naphthalene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	n-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	n-Propylbenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	o-Xylene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	sec-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Styrene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	tert-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Toluene	J	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Trans-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Trans-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Trichloroethene	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106007	GW007-204	410-16365-1	LF	N	Xylenes, total	UJ	Continuing Calibration Verification
KAFB-106009	GW009-204	410-17030-1	LF	N	1,2-Dibromoethane	J	Surrogate Recovery

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106009	GW009-204	410-17030-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106009	GW009-204	410-17030-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106009	GW009-204	410-17030-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106010	GW010-204	410-18275-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106010	GW010-604	410-18275-1	LF	FD	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106010	GW010-204	410-18275-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106010	GW010-604	410-18275-1	LF	FD	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106010	GW010-204	410-18275-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106010	GW010-604	410-18275-1	LF	FD	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106010	GW010-204	410-18275-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106010	GW010-604	410-18275-1	LF	FD	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106010	GW010-204	410-18275-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106010	GW010-604	410-18275-1	LF	FD	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106011	GW011-204	410-15842-1	LF	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106011	GW011-204	410-15842-1	LF	N	Chloride	J	Continuing Calibration Verification
KAFB-106011	GW011-204	410-15842-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106011	GW011-204	410-15842-1	LF	N	Sulfate	J	Continuing Calibration Verification
KAFB-106012R	GW012R-204	410-15948-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106012R	GW012R-204	410-15948-1	LF	N	Lead	U	Equipment Blank ^a
KAFB-106012R	GW012R-204	410-15948-1	LF	N	Toluene	U	Equipment Blank
KAFB-106013	GW013-204	410-17173-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106013	GW013-204	410-17173-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106013	GW013-204	410-17173-1	LF	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106013	GW013-204	410-17173-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106013	GW013-204	410-17173-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106013	GW013-204	410-17173-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106013	GW013-204	410-17173-1	LF	N	Manganese	J	Laboratory Control Spike
KAFB-106013	GW013-204	410-17173-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106014	GW014-204	410-18906-1	LF	N	Acetone	UJ	Continuing Calibration Verification, Equipment Blank
KAFB-106014	GW014-204	410-18906-1	LF	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106014	GW014-604	410-18906-1	LF	FD	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106015	GW015-204	410-17330-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106015	GW015-204	410-17330-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106016	GW016-204	410-15842-1	LF	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106016	GW016-204	410-15842-1	LF	N	Chloride	J	Continuing Calibration Verification
KAFB-106016	GW016-204	410-15842-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106016	GW016-204	410-15842-1	LF	N	Sulfate	J	Continuing Calibration Verification
KAFB-106017	GW017-204	410-17749-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106017	GW017-604	410-17749-1	LF	FD	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106017	GW017-204	410-17749-1	LF	N	sec-Butylbenzene	U	Trip Blank ^a
KAFB-106017	GW017-604	410-17749-1	LF	FD	sec-Butylbenzene	U	Trip Blank ^a
KAFB-106018	GW018-204	410-18906-1	LF	N	Acetone	UJ	Continuing Calibration Verification, Equipment Blank
KAFB-106018	GW018-204	410-18906-1	LF	N	Lead	U	Equipment Blank ^a
KAFB-106020	GW020-204	410-18906-1	LF	N	Acetone	UJ	Continuing Calibration Verification, Equipment Blank ^a
KAFB-106020	GW020-204	410-18906-1	LF	N	Lead	U	Equipment Blank
KAFB-106021	GW021-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106021	GW021-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106021	GW021-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,1,1,2-Tetrachloroethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,1,1-Trichloroethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,1,2,2-Tetrachloroethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,1,2-Trichloroethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,1-Dichloroethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,1-Dichloroethene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,1-Dichloropropene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2,3-Trichlorobenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2,3-Trichloropropane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2,4-Trimethylbenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2-Dibromo-3-chloropropane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2-Dibromoethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2-Dichlorobenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2-Dichloroethane	J	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,2-Dichloropropane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,3,5-Trimethylbenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,3-Dichlorobenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,3-Dichloropropane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	1,4-Dichlorobenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	2,2-Dichloropropane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification,Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	2-Chlorotoluene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	2-Hexanone	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	4-Chlorotoluene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	4-Isopropyltoluene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	4-Methyl-2-pentanone	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Acetone	J	Continuing Calibration Verification,Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Acrolein	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Acrylonitrile	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Benzene	J	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Bromobenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Bromochloromethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Bromodichloromethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Bromoform	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Bromomethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Carbon disulfide	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Carbon tetrachloride	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Chlorobenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Chloroethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Chloroform	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Chloromethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Cis-1,2-Dichloroethene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Cis-1,3-dichloropropene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Dibromochloromethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Dibromomethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Dichlorodifluoromethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Ethylbenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Isopropylbenzene	J	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	m- & p-Xylenes	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Methyl tert-butyl ether	J	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Methylene chloride	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Naphthalene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	n-Butylbenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	n-Propylbenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	o-Xylene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	sec-Butylbenzene	J	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Styrene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	tert-Butylbenzene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification,Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Toluene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Trans-1,2-Dichloroethene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Trans-1,3-dichloropropene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Trichloroethene	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Trichlorofluoromethane	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Vinyl acetate	UJ	Headspace

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106022	GW022-204	410-16827-1	DMS	N	Vinyl chloride	UJ	Headspace
KAFB-106022	GW022-204	410-16827-1	DMS	N	Xylenes, total	UJ	Headspace
KAFB-106023	GW023-204	410-17173-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106023	GW023-204	410-17173-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106023	GW023-204	410-17173-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106023	GW023-204	410-17173-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106023	GW023-204	410-17173-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106023	GW023-204	410-17173-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106023	GW023-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106024	GW024-204	410-18029-1	LF	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106024	GW024-204	410-18029-1	LF	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106025	GW025-204	410-17392-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106025	GW025-204	410-17392-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106025	GW025-204	410-17392-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106025	GW025-204	410-17392-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106025	GW025-204	410-17392-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106025	GW025-204	410-17392-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106026	GW026-204	410-17030-1	LF	N	1,2-Dibromoethane	UJ	Surrogate Recovery
KAFB-106026	GW026-204	410-17030-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106027	GW027-204	410-15842-1	LF	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106027	GW027-204	410-15842-1	LF	N	Chloride	J	Continuing Calibration Verification
KAFB-106027	GW027-204	410-15842-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106027	GW027-204	410-15842-1	LF	N	Sulfate	J	Continuing Calibration Verification
KAFB-106028	GW028-204	410-18162-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106028	GW028-204	410-18162-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106028	GW028-204	410-18162-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106028	GW028-204	410-18162-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106028	GW028-204	410-18162-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106029	GW029-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106029	GW029-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106029	GW029-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106030	GW030-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106030	GW030-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106030	GW030-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106030	GW030-204	410-16376-1	DMS	N	Toluene	UJ	Continuing Calibration Verification
KAFB-106031	GW031-204	410-16376-1	DMS	N	1,1-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106031	GW031-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106031	GW031-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106031	GW031-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106033	GW033-204	410-16827-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106033	GW033-204	410-16827-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106033	GW033-204	410-16827-1	DMS	N	Alkalinity, total (as CaCO3)	J	MS/MSD Recovery
KAFB-106033	GW033-204	410-16827-1	DMS	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106033	GW033-204	410-16827-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106035	GW035-204	410-16827-1	DMS	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106035	GW035-204	410-16827-1	DMS	N	Nitrogen as nitrate + nitrite	J	MS/MSD Recovery and RPD
KAFB-106036	GW036-204	410-17030-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106036	GW036-204	410-17030-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106037	GW037-204	410-16827-1	DMS	N	1,2-Dibromoethane	J	Field Duplicate RPD
KAFB-106037	GW037-604	410-16827-1	DMS	FD	1,2-Dibromoethane	J	Field Duplicate RPD
KAFB-106037	GW037-204	410-16827-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106037	GW037-604	410-16827-1	DMS	FD	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106037	GW037-204	410-16827-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106037	GW037-604	410-16827-1	DMS	FD	Acetone	UJ	Continuing Calibration Verification
KAFB-106037	GW037-204	410-16827-1	DMS	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106037	GW037-604	410-16827-1	DMS	FD	Bromide	UJ	Continuing Calibration Verification
KAFB-106037	GW037-204	410-16827-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106037	GW037-604	410-16827-1	DMS	FD	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,1,1,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,1,1-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,1,2,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,1,2-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,1-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,1-Dichloropropene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2,3-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2,3-Trichloropropane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2,4-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2-Dibromo-3-chloropropane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2-Dibromoethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,3,5-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,3-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,3-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	1,4-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	2,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	2-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	4-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	4-Isopropyltoluene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Benzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Bromobenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Bromochloromethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Bromodichloromethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106038	GW038-204	410-16365-1	LF	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Carbon tetrachloride	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Chlorobenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Chloroform	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Cis-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Cis-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Dibromochloromethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Dibromomethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Ethylbenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Isopropylbenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	m- & p-Xylenes	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Methyl tert-butyl ether	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Methylene chloride	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Naphthalene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	n-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	n-Propylbenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	o-Xylene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	sec-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Styrene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	tert-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Toluene	J	Continuing Calibration Verification,MS/MSD
KAFB-106038	GW038-204	410-16365-1	LF	N	Trans-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Trans-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Trichloroethene	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106038	GW038-204	410-16365-1	LF	N	Xylenes, total	UJ	Continuing Calibration Verification
KAFB-106039	GW039-204	410-16376-1	LF	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106039	GW039-204	410-16376-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106039	GW039-204	410-16376-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106043	GW043-204	410-17030-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106044	GW044-204	410-15842-1	LF	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106044	GW044-604	410-15842-1	LF	FD	Bromide	J	Continuing Calibration Verification
KAFB-106044	GW044-204	410-15842-1	LF	N	Chloride	J	Continuing Calibration Verification
KAFB-106044	GW044-604	410-15842-1	LF	FD	Chloride	J	Continuing Calibration Verification
KAFB-106044	GW044-204	410-15842-1	LF	N	Hexachloro-1,3-butadiene	U	Continuing Calibration Verification
KAFB-106044	GW044-604	410-15842-1	LF	FD	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106044	GW044-204	410-15842-1	LF	N	Sulfate	J	Continuing Calibration Verification
KAFB-106044	GW044-604	410-15842-1	LF	FD	Sulfate	J	Continuing Calibration Verification
KAFB-106046	GW046-204	410-17853-1	LF	N	4-Isopropyltoluene	U	Method Blank, Trip Blank ^a

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106046	GW046-204	410-17853-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106046	GW046-204	410-17853-1	LF	N	sec-Butylbenzene	U	Method Blank, Trip Blank ^a
KAFB-106047	GW047-204	410-17853-1	LF	N	4-Isopropyltoluene	U	Method Blank, Trip Blank ^a
KAFB-106047	GW047-204	410-17853-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106048	GW048-204	410-17392-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106048	GW048-204	410-17392-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106048	GW048-204	410-17392-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106048	GW048-204	410-17392-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106048	GW048-204	410-17392-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106048	GW048-204	410-17392-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106048	GW048-204	410-17392-1	LF	N	sec-Butylbenzene	U	Method Blank ^a
KAFB-106049	GW049-204	410-17030-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106049	GW049-204	410-17030-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106049	GW049-204	410-17030-1	DMS	N	Alkalinity, total (as CaCO3)	J	MS/MSD Recovery
KAFB-106049	GW049-204	410-17030-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106050	GW050-204	410-17030-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106050	GW050-204	410-17030-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106050	GW050-204	410-17030-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106050	GW050-204	410-17030-1	DMS	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106050	GW050-204	410-17030-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106051	GW051-604	410-17392-1	DMS	FD	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106051	GW051-604	410-17392-1	DMS	FD	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106051	GW051-604	410-17392-1	DMS	FD	4-Isopropyltoluene	U	Method Blank ^a
KAFB-106051	GW051-604	410-17392-1	DMS	FD	Acetone	UJ	Continuing Calibration Verification
KAFB-106051	GW051-604	410-17392-1	DMS	FD	Acrolein	UJ	Continuing Calibration Verification
KAFB-106051	GW051-604	410-17392-1	DMS	FD	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106051	GW051-604	410-17392-1	DMS	FD	Alkalinity, total (as CaCO3)	J	MS/MSD Recovery
KAFB-106051	GW051-204	410-17392-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106051	GW051-204	410-17392-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106051	GW051-204	410-17392-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106051	GW051-604	410-17392-1	DMS	FD	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106051	GW051-204	410-17392-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106051	GW051-204	410-17392-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106051	GW051-204	410-17392-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106052	GW052-204	410-17030-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106052	GW052-204	410-17030-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106052	GW052-204	410-17030-1	DMS	N	Chloride	J	Continuing Calibration Verification
KAFB-106052	GW052-204	410-17030-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106053	GW053-204	410-16827-1	DMS	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106053	GW053-204	410-16827-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106053	GW053-204	410-16827-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106053	GW053-204	410-16827-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106053	GW053-204	410-16827-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106054	GW054-204	410-16827-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106054	GW054-204	410-16827-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106054	GW054-204	410-16827-1	DMS	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106054	GW054-204	410-16827-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106059	GW059-204	410-18275-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106060	GW060-204	410-18029-1	LF	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106060	GW060-204	410-18029-1	LF	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106061	GW061-204	410-17392-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106061	GW061-204	410-17392-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106061	GW061-204	410-17392-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106061	GW061-204	410-17392-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106061	GW061-204	410-17392-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106061	GW061-204	410-17392-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106061	GW061-204	410-17392-1	LF	N	sec-Butylbenzene	U	Method Blank ^a
KAFB-106062	GW062-204	410-17853-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106063	GW063-204	410-17330-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106063	GW063-204	410-17330-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106064	GW064-204	410-17330-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106064	GW064-204	410-17330-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106064	GW064-204	410-17330-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106064	GW064-204	410-17330-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106065	GW065-204	410-17853-1	LF	N	4-Isopropyltoluene	U	Method Blank, Trip Blank ^a
KAFB-106065	GW065-204	410-17853-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106066	GW066-204	410-17563-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106066	GW066-204	410-17563-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106066	GW066-204	410-17563-1	LF	N	4-Isopropyltoluene	U	Method Blank, Trip Blank ^a
KAFB-106066	GW066-204	410-17563-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106066	GW066-204	410-17563-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106066	GW066-204	410-17563-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106066	GW066-204	410-17563-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106067	GW067-204	410-17853-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106067	GW067-204	410-17853-1	LF	N	sec-Butylbenzene	U	Method Blank ^a
KAFB-106068	GW068-204	410-17565-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106068	GW068-204	410-17565-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106068	GW068-204	410-17565-1	LF	N	4-Isopropyltoluene	U	Method Blank, Trip Blank ^a
KAFB-106068	GW068-204	410-17565-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106068	GW068-204	410-17565-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106068	GW068-204	410-17565-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106068	GW068-204	410-17565-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106069	GW069-204	410-17565-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106069	GW069-204	410-17565-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106069	GW069-204	410-17565-1	LF	N	4-Isopropyltoluene	U	Method Blank, Trip Blank ^a
KAFB-106069	GW069-204	410-17565-1	LF	N	Acetone	J	Continuing Calibration Verification
KAFB-106069	GW069-204	410-17565-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106069	GW069-204	410-17565-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106069	GW069-204	410-17565-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106069	GW069-204	410-17565-1	LF	N	sec-Butylbenzene	U	Method Blank, Trip Blank ^a
KAFB-106070	GW070-204	410-17173-1	DMS	N	Acetone	J	Continuing Calibration Verification
KAFB-106070	GW070-604	410-17173-1	DMS	FD	Acetone	J	Continuing Calibration Verification
KAFB-106070	GW070-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106070	GW070-604	410-17173-1	DMS	FD	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106071	GW071-204	410-17173-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106071	GW071-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106072	GW072-204	410-17392-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106072	GW072-204	410-17392-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106072	GW072-204	410-17392-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106072	GW072-204	410-17392-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106072	GW072-204	410-17392-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106072	GW072-204	410-17392-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106073	GW073-204	410-17173-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106073	GW073-204	410-17173-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106073	GW073-204	410-17173-1	LF	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106073	GW073-204	410-17173-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106073	GW073-204	410-17173-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106073	GW073-204	410-17173-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106073	GW073-204	410-17173-1	LF	N	Manganese	J	Laboratory Control Spike
KAFB-106073	GW073-204	410-17173-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106074	GW074-204	410-17173-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106074	GW074-204	410-17173-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106074	GW074-204	410-17173-1	LF	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106074	GW074-204	410-17173-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106074	GW074-204	410-17173-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106074	GW074-204	410-17173-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106074	GW074-204	410-17173-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106075	GW075-204	410-18275-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106075	GW075-204	410-18275-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106075	GW075-204	410-18275-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106075	GW075-204	410-18275-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106075	GW075-204	410-18275-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106076	GW076-204	410-19107-1	LF	N	Acetone	J	Continuing Calibration Verification
KAFB-106076	GW076-604	410-19107-1	LF	FD	Acetone	J	Continuing Calibration Verification
KAFB-106076	GW076-204	410-19107-1	LF	N	Alkalinity, total (as CaCO3)	J	MS/MSD Recovery
KAFB-106077	GW077-204	410-16827-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106077	GW077-204	410-16827-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106077	GW077-204	410-16827-1	LF	N	Bromide	UJ	Continuing Calibration Verification,MS/MSD
KAFB-106077	GW077-204	410-16827-1	LF	N	Chloride	J	MS/MSD Recovery
KAFB-106077	GW077-204	410-16827-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106078	GW078-204	410-17853-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106079	GW079-204	410-19107-1	LF	N	Acetone	J	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	Alkalinity, total (as CaCO3)	J	MS/MSD Recovery
KAFB-106080	GW080-204	410-22058-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	Carbon tetrachloride	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	Chloride	J	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106080	GW080-204	410-22058-1	LF	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	Lead	U	Equipment Blank ^a
KAFB-106080	GW080-204	410-22058-1	LF	N	Manganese	U	Equipment Blank
KAFB-106080	GW080-204	410-22058-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106080	GW080-204	410-22058-1	LF	N	Toluene	U	Trip Blank ^a
KAFB-106080	GW080-204	410-22058-1	LF	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106081	GW081-204	410-17392-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106081	GW081-204	410-17392-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106081	GW081-204	410-17392-1	LF	N	4-Isopropyltoluene	U	Method Blank ^a
KAFB-106081	GW081-204	410-17392-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106081	GW081-204	410-17392-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106081	GW081-204	410-17392-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106081	GW081-204	410-17392-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106082	GW082-204	410-16376-1	LF	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106082	GW082-204	410-16376-1	LF	N	Acetone	J	Continuing Calibration Verification
KAFB-106082	GW082-204	410-16376-1	LF	N	Alkalinity, total (as CaCO3)	J	MS/MSD Recovery
KAFB-106082	GW082-204	410-16376-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106083	GW083-204	410-16376-1	LF	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106083	GW083-204	410-16376-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106083	GW083-204	410-16376-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106084	GW084-204	410-16534-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106084	GW084-204	410-16534-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106084	GW084-204	410-16534-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106084	GW084-204	410-16534-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106085	GW085-204	410-17173-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106085	GW085-604	410-17173-1	DMS	FD	Bromoform	UJ	Continuing Calibration Verification
KAFB-106085	GW085-204	410-17173-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106085	GW085-604	410-17173-1	DMS	FD	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106085	GW085-204	410-17173-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106085	GW085-604	410-17173-1	DMS	FD	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106085	GW085-204	410-17173-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106085	GW085-604	410-17173-1	DMS	FD	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106085	GW085-204	410-17173-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106085	GW085-604	410-17173-1	DMS	FD	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106085	GW085-204	410-17173-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106085	GW085-604	410-17173-1	DMS	FD	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106085	GW085-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106085	GW085-604	410-17173-1	DMS	FD	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106086	GW086-204	410-17173-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106086	GW086-204	410-17173-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106086	GW086-204	410-17173-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106086	GW086-204	410-17173-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106086	GW086-204	410-17173-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106086	GW086-204	410-17173-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106086	GW086-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106087	GW087-204	410-17173-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106087	GW087-204	410-17173-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106087	GW087-204	410-17173-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106087	GW087-204	410-17173-1	DMS	N	Chloride	J	Continuing Calibration Verification
KAFB-106087	GW087-204	410-17173-1	DMS	N	Chlorobenzene	UJ	Continuing Calibration Verification
KAFB-106087	GW087-204	410-17173-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106087	GW087-204	410-17173-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106087	GW087-204	410-17173-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106087	GW087-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106088	GW088-204	410-17392-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106088	GW088-204	410-17392-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106088	GW088-204	410-17392-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106088	GW088-204	410-17392-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106088	GW088-204	410-17392-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106089	GW089-204	410-17173-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106089	GW089-204	410-17173-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106089	GW089-204	410-17173-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106089	GW089-204	410-17173-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106089	GW089-204	410-17173-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106089	GW089-204	410-17173-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106089	GW089-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106090	GW090-204	410-17173-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106090	GW090-204	410-17173-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106090	GW090-204	410-17173-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106090	GW090-204	410-17173-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106090	GW090-204	410-17173-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106090	GW090-204	410-17173-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106090	GW090-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106091	GW091-204	410-16827-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106091	GW091-204	410-16827-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106091	GW091-604	410-16827-1	DMS	FD	Bromide	UJ	Continuing Calibration Verification
KAFB-106091	GW091-604	410-16827-1	DMS	FD	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106091	GW091-604	410-16827-1	DMS	FD	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106091	GW091-604	410-16827-1	DMS	FD	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106091	GW091-204	410-16827-1	DMS	N	Nitrogen as nitrate + nitrite	J	MS/MSD Recovery
KAFB-106091	GW091-204	410-16827-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106091	GW091-604	410-16827-1	DMS	FD	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106092	GW092-204	410-16827-1	DMS	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106092	GW092-204	410-16827-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106092	GW092-204	410-16827-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106092	GW092-204	410-16827-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106092	GW092-204	410-16827-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106094	GW094-204	410-17749-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106094	GW094-204	410-17749-1	LF	N	sec-Butylbenzene	U	Trip Blank ^a
KAFB-106095	GW095-204	410-16534-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106095	GW095-204	410-16534-1	LF	N	Acetone	J	Continuing Calibration Verification
KAFB-106095	GW095-204	410-16534-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106096	GW096-204	410-16534-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106096	GW096-604	410-16534-1	LF	FD	Chloroethane	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106096	GW096-204	410-16534-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106096	GW096-604	410-16534-1	LF	FD	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106096	GW096-204	410-16534-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106096	GW096-604	410-16534-1	LF	FD	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106096	GW096-204	410-16534-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106096	GW096-604	410-16534-1	LF	FD	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106097	GW097-204	410-17173-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106097	GW097-204	410-17173-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106097	GW097-204	410-17173-1	LF	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106097	GW097-204	410-17173-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106097	GW097-204	410-17173-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106097	GW097-204	410-17173-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106097	GW097-204	410-17173-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106098	GW098-204	410-17173-1	LF	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106098	GW098-204	410-17173-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106098	GW098-204	410-17173-1	LF	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106098	GW098-204	410-17173-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106098	GW098-204	410-17173-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106098	GW098-204	410-17173-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106098	GW098-204	410-17173-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106099	GW099-204	410-17330-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106099	GW099-204	410-17330-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106099	GW099-204	410-17330-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106099	GW099-204	410-17330-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106100	GW100-204	410-17330-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106100	GW100-204	410-17330-1	LF	N	Chloride	J	MS/MSD Recovery
KAFB-106100	GW100-204	410-17330-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106100	GW100-204	410-17330-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106100	GW100-204	410-17330-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106101	GW101-204	410-17392-1	LF	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106101	GW101-204	410-17392-1	LF	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106101	GW101-204	410-17392-1	LF	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106101	GW101-204	410-17392-1	LF	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106101	GW101-204	410-17392-1	LF	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106101	GW101-204	410-17392-1	LF	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106102	GW102-204	410-17392-1	LF	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106102	GW102-204	410-17392-1	LF	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106102	GW102-204	410-17392-1	LF	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106102	GW102-204	410-17392-1	LF	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106102	GW102-204	410-17392-1	LF	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106102	GW102-204	410-17392-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106103	GW103-204	410-17173-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106103	GW103-204	410-17173-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106103	GW103-204	410-17173-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106103	GW103-204	410-17173-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106103	GW103-204	410-17173-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106103	GW103-204	410-17173-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106103	GW103-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106104	GW104-204	410-17173-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106104	GW104-204	410-17173-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106104	GW104-204	410-17173-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106104	GW104-204	410-17173-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106104	GW104-204	410-17173-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106104	GW104-204	410-17173-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106104	GW104-204	410-17173-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106105	GW105-204	410-17030-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106107	GW107-204	410-17030-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106151-484	GW151-484-204	410-18029-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106151-484	GW151-484-604	410-18029-1	DMS	FD	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106151-484	GW151-484-604	410-18029-1	DMS	FD	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106152-484	GW152-484-204	410-18029-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106152-484	GW152-484-204	410-18029-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106153-484	GW153-484-204	410-18029-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106153-484	GW153-484-204	410-18029-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106201	GW201-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106201	GW201-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106201	GW201-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106201	GW201-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106202	GW202-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106202	GW202-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106202	GW202-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106202	GW202-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106203	GW203-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106203	GW203-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106203	GW203-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106203	GW203-204	410-16534-1	DMS	N	Nitrogen as nitrate + nitrite	J	MS/MSD Recovery
KAFB-106203	GW203-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106204	GW204-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106204	GW204-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106204	GW204-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106205	GW205-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106205	GW205-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106205	GW205-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106206	GW206-204	410-17030-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106206	GW206-204	410-17030-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106206	GW206-204	410-17030-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106206	GW206-204	410-17030-1	DMS	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106206	GW206-204	410-17030-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106207	GW207-204	410-16365-1	DMS	N	Carbon tetrachloride	U	Continuing Calibration Verification
KAFB-106207	GW207-204	410-16365-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106207	GW207-204	410-16365-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification,MS/MD,RPD
KAFB-106207	GW207-204	410-16365-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106207	GW207-204	410-16365-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106208	GW208-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106208	GW208-604	410-16376-1	DMS	FD	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106208	GW208-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106208	GW208-604	410-16376-1	DMS	FD	Acetone	UJ	Continuing Calibration Verification
KAFB-106208	GW208-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106208	GW208-604	410-16376-1	DMS	FD	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106209	GW209-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106209	GW209-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106209	GW209-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106212	GW212-204	410-16827-1	DMS	N	Bromide	UJ	Continuing Calibration Verification
KAFB-106212	GW212-204	410-16827-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106212	GW212-204	410-16827-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106212	GW212-204	410-16827-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106212	GW212-204	410-16827-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106213	GW213-204	410-17330-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106213	GW213-204	410-17330-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106213	GW213-204	410-17330-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106213	GW213-204	410-17330-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106214	GW214-204	410-17330-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106214	GW214-204	410-17330-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106214	GW214-204	410-17330-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106214	GW214-204	410-17330-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106215	GW215-204	410-17330-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106215	GW215-204	410-17330-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106215	GW215-204	410-17330-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106215	GW215-204	410-17330-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106216	GW216-204	410-16534-1	DMS	N	Acetone	U	Trip Blank ^a
KAFB-106216	GW216-204	410-16534-1	DMS	N	Alkalinity, total (as CaCO3)	J	MS/MSD Recovery
KAFB-106216	GW216-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106216	GW216-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106216	GW216-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106216	GW216-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106219	GW219-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106219	GW219-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106219	GW219-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106219	GW219-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106220	GW220-204	410-16534-1	DMS	N	Chloride	J	MS/MSD Recovery
KAFB-106220	GW220-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106220	GW220-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106220	GW220-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106220	GW220-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,1,1,2-Tetrachloroethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,1,1-Trichloroethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,1,2,2-Tetrachloroethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,1,2-Trichloroethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,1-Dichloroethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,1-Dichloroethene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,1-Dichloropropene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2,3-Trichlorobenzene	UJ	Headspace

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2,3-Trichloropropane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2,4-Trimethylbenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2-Dibromo-3-chloropropane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2-Dibromoethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2-Dichlorobenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2-Dichloroethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,2-Dichloropropane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,3,5-Trimethylbenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,3-Dichlorobenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,3-Dichloropropane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	1,4-Dichlorobenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	2,2-Dichloropropane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	2-Butanone	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	2-Chlorotoluene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	2-Hexanone	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	4-Chlorotoluene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	4-Isopropyltoluene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	4-Methyl-2-pentanone	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Acetone	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Acrolein	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Acrylonitrile	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Benzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Bromobenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Bromochloromethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Bromodichloromethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Bromoform	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Bromomethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Carbon disulfide	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Carbon tetrachloride	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Chlorobenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification,Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Chloroform	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification,Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Cis-1,2-Dichloroethene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Cis-1,3-dichloropropene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Dibromochloromethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Dibromomethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Dichlorodifluoromethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Ethylbenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification,Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Isopropylbenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	m- & p-Xylenes	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Methyl tert-butyl ether	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Methylene chloride	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Naphthalene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	n-Butylbenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	n-Propylbenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	o-Xylene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	sec-Butylbenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Styrene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	tert-Butylbenzene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Tetrachloroethene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Toluene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Trans-1,2-Dichloroethene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Trans-1,3-dichloropropene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Trichloroethene	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Trichlorofluoromethane	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Vinyl acetate	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Headspace
KAFB-106221	GW221-204	410-16534-1	DMS	N	Xylenes, total	UJ	Headspace
KAFB-106222	GW222-204	410-17330-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106222	GW222-204	410-17330-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106222	GW222-204	410-17330-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106222	GW222-204	410-17330-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106223	GW223-204	410-17330-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106223	GW223-204	410-17330-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106223	GW223-204	410-17330-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106223	GW223-204	410-17330-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106224	GW224-204	410-17330-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106224	GW224-204	410-17330-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106224	GW224-204	410-17330-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106224	GW224-204	410-17330-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106225	GW225-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106225	GW225-604	410-16534-1	DMS	FD	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106225	GW225-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106225	GW225-604	410-16534-1	DMS	FD	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106225	GW225-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106225	GW225-604	410-16534-1	DMS	FD	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106225	GW225-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106225	GW225-604	410-16534-1	DMS	FD	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106227	GW227-204	410-16534-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106227	GW227-204	410-16534-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106227	GW227-204	410-16534-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106227	GW227-204	410-16534-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106230	GW230-204	410-17030-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106230	GW230-204	410-17030-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106230	GW230-204	410-17030-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106230	GW230-204	410-17030-1	DMS	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106230	GW230-204	410-17030-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106231	GW231-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106231	GW231-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106231	GW231-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106232	GW232-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106232	GW232-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106232	GW232-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,1,1,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,1,1-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,1,2,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,1,2-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,1-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,1-Dichloropropene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2,3-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2,3-Trichloropropane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2,4-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2-Dibromo-3-chloropropane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2-Dibromoethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,3,5-Trimethylbenzene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,3-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,3-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	1,4-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	2,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	2-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	4-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	4-Isopropyltoluene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Benzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Bromobenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Bromochloromethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Bromodichloromethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Carbon tetrachloride	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Chlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Chloroform	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Cis-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Cis-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Dibromochloromethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Dibromomethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Ethylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Isopropylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	m- & p-Xylenes	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Methyl tert-butyl ether	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Methylene chloride	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Naphthalene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	n-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	n-Propylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	o-Xylene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	sec-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Styrene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Tetrachloroethene	J	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Toluene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Trans-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Trans-1,3-dichloropropene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Trichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106235-438	GW235-438-204	410-16365-1	DMS	N	Xylenes, total	UJ	Continuing Calibration Verification
KAFB-106235-472	GW235-472-204	410-16197-1	DMS	N	Cis-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-472	GW235-472-204	410-16197-1	DMS	N	Lead	U	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,1,1,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,1,1-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,1,2,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,1,2-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,1-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,1-Dichloropropene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2,3-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2,3-Trichloropropane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2,4-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2-Dibromo-3-chloropropane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2-Dibromoethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,3,5-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,3-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,3-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	1,4-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	2,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	2-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	4-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	4-Isopropyltoluene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Benzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Bromobenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Bromochloromethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Bromodichloromethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Carbon tetrachloride	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Chlorobenzene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Chloroform	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Cis-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Cis-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Dibromochloromethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Dibromomethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Ethylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Isopropylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	m- & p-Xylenes	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Methyl tert-butyl ether	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Methylene chloride	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Naphthalene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	n-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	n-Propylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	o-Xylene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	sec-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Styrene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	tert-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Toluene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Trans-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Trans-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Trichloroethene	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106235-501	GW235-501-204	410-16365-1	DMS	N	Xylenes, total	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,1,1,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,1,1-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,1,2,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,1,2-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,1-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,1-Dichloropropene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2,3-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2,3-Trichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2,4-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2-Dibromo-3-chloropropane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2-Dibromoethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,2-Dichloropropane	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,3,5-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,3-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,3-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	1,4-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	2,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	2-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	4-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	4-Isopropyltoluene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Benzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Bromobenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Bromochloromethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Bromodichloromethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Carbon tetrachloride	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Chlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Chloroform	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Cis-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Cis-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Dibromochloromethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Dibromomethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Ethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Isopropylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	m- & p-Xylenes	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Methyl tert-butyl ether	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Methylene chloride	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Naphthalene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	n-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	n-Propylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	o-Xylene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	sec-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Styrene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	tert-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Toluene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Trans-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Trans-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Trichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106236-436	GW236-436-204	410-16365-1	DMS	N	Xylenes, total	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,1,1,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,1,1-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,1,2,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,1,2-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,1-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,1-Dichloropropene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2,3-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2,3-Trichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2,4-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2-Dibromo-3-chloropropane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2-Dibromoethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,3,5-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,3-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,3-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	1,4-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	2,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	2-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	4-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	4-Isopropyltoluene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Benzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Bromobenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Bromodichloromethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Carbon tetrachloride	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Chlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Chloroform	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Cis-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Cis-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Dibromochloromethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Dibromomethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Ethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Isopropylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	m- & p-Xylenes	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Methyl tert-butyl ether	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Methylene chloride	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Naphthalene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	n-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	n-Propylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	o-Xylene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	sec-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Styrene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	tert-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Toluene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Trans-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Trans-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Trichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106236-470	GW236-470-204	410-16365-1	DMS	N	Xylenes, total	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,1,1,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,1,1-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,1,2,2-Tetrachloroethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,1,2-Trichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,1-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,1-Dichloropropene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2,3-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2,3-Trichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2,4-Trichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2,4-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2-Dibromo-3-chloropropane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2-Dibromoethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2-Dichloroethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,3,5-Trimethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,3-Dichlorobenzene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,3-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	1,4-Dichlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	2,2-Dichloropropane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	2-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	4-Chlorotoluene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	4-Isopropyltoluene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	4-Methyl-2-pentanone	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Acrolein	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Acrylonitrile	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Benzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Bromobenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Bromochloromethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Bromodichloromethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Bromoform	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Carbon disulfide	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Carbon tetrachloride	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Chlorobenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Chloroform	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Cis-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Cis-1,3-dichloropropene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Dibromochloromethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Dibromomethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Ethylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Isopropylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	m- & p-Xylenes	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Methyl tert-butyl ether	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Methylene chloride	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Naphthalene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	n-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	n-Propylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	o-Xylene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	sec-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Styrene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	tert-Butylbenzene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Toluene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Trans-1,2-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Trans-1,3-dichloropropene	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Trichloroethene	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106236-499	GW236-499-204	410-16365-1	DMS	N	Xylenes, total	UJ	Continuing Calibration Verification
KAFB-106240-449	GW240-449-204	410-17392-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106240-449	GW240-449-204	410-17392-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106240-449	GW240-449-204	410-17392-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106240-449	GW240-449-204	410-17392-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106240-449	GW240-449-204	410-17392-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106240-449	GW240-449-204	410-17392-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106241-428	GW241-428-204	410-17030-1	DMS	N	1,2-Dibromoethane	J	Lab replicate RPD
KAFB-106241-428	GW241-428-204	410-17030-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106241-428	GW241-428-204	410-17030-1	DMS	N	Acetone	J	Continuing Calibration Verification
KAFB-106241-428	GW241-428-204	410-17030-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106242-418	GW242-418-204	410-16376-1	DMS	N	1,1-Dichloroethene	UJ	Continuing Calibration Verification
KAFB-106242-418	GW242-418-204	410-16376-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106242-418	GW242-418-204	410-16376-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106243-425	GW243-425-204	410-17330-1	DMS	N	Acetone	UJ	Continuing Calibration Verification
KAFB-106243-425	GW243-425-204	410-17330-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106244-445	GW244-445-204	410-17330-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106244-445	GW244-445-204	410-17330-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106244-445	GW244-445-204	410-17330-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106244-445	GW244-445-204	410-17330-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106245-460	GW245-460-204	410-17392-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106245-460	GW245-460-204	410-17392-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106245-460	GW245-460-204	410-17392-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106245-460	GW245-460-204	410-17392-1	DMS	N	Tetrachloroethene	UJ	Continuing Calibration Verification
KAFB-106245-460	GW245-460-204	410-17392-1	DMS	N	Trichlorofluoromethane	UJ	Continuing Calibration Verification
KAFB-106245-460	GW245-460-204	410-17392-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106247-450	GW247-450-204	410-17330-1	DMS	N	Bromomethane	UJ	Continuing Calibration Verification
KAFB-106247-450	GW247-450-204	410-17330-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106247-450	GW247-450-204	410-17330-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106247-450	GW247-450-204	410-17330-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106S1-447	GWS1-447-204	410-18029-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106S1-447	GWS1-447-204	410-18029-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-106S2-451	GWS2-451-204	410-18162-1	DMS	N	2-Hexanone	J	Continuing Calibration Verification
KAFB-106S2-451	GWS2-451-204	410-18162-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106S2-451	GWS2-451-204	410-18162-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106S2-451	GWS2-451-204	410-18162-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106S2-451	GWS2-451-204	410-18162-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification
KAFB-106S3-449	GWS3-449-204	410-18162-1	DMS	N	2-Hexanone	UJ	Continuing Calibration Verification
KAFB-106S3-449	GWS3-449-204	410-18162-1	DMS	N	Chloroethane	UJ	Continuing Calibration Verification
KAFB-106S3-449	GWS3-449-204	410-18162-1	DMS	N	Chloromethane	UJ	Continuing Calibration Verification
KAFB-106S3-449	GWS3-449-204	410-18162-1	DMS	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-106S3-449	GWS3-449-204	410-18162-1	DMS	N	Vinyl chloride	UJ	Continuing Calibration Verification

Table 3
Qualified Sample Results, Q4 2020

Well Location ID	Sample Name	Sample Delivery Group	Collection Method	Sample Type	Analyte	Data Qualifier	Validation Reason Code
KAFB-106S4-446	GWS4-446-204	410-18162-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106S4-446	GWS4-446-204	410-18162-1	DMS	N	Bromodichloromethane	U	Equipment Blank ^a
KAFB-106S5-446	GWS5-446-204	410-18162-1	DMS	N	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106S5-446	GWS5-446-604	410-18162-1	DMS	FD	2-Butanone	UJ	Continuing Calibration Verification
KAFB-106S7-451	GWS7-451-204	410-18162-1	DMS	N	2-Butanone	J	Continuing Calibration Verification
KAFB-106S8-451	GWS8-451-204	410-18029-1	DMS	N	2-Hexanone	J	MS/MSD Recovery and RPD
KAFB-106S8-451	GWS8-451-204	410-18029-1	DMS	N	Dichlorodifluoromethane	UJ	Continuing Calibration Verification
KAFB-106S8-451	GWS8-451-204	410-18029-1	DMS	N	Iron	J	Lab replicate RPD
KAFB-106S8-451	GWS8-451-204	410-18029-1	DMS	N	Isopropylbenzene	J	MS/MSD Recovery
KAFB-106S8-451	GWS8-451-204	410-18029-1	DMS	N	o-Xylene	J	MS/MSD Recovery
KAFB-106S8-451	GWS8-451-204	410-18029-1	DMS	N	Toluene	J	MS/MSD Recovery and RPD
KAFB-106S8-451	GWS8-451-204	410-18029-1	DMS	N	Vinyl acetate	UJ	Continuing Calibration Verification
KAFB-3411	GW3411-204	410-15948-1	LF	N	Hexachloro-1,3-butadiene	UJ	Continuing Calibration Verification
KAFB-3411	GW3411-204	410-15948-1	LF	N	Toluene	U	Equipment Blank

^a The limit of detection was raised to the limit of quantitation

DF = diffusion bag sampler

FD = Field duplicate

ID = identification

LF = low flow sampling

MS/MSD = matrix spike/matrix spike duplicate

N = normal field sample

RPD = relative percent difference

Qualifiers:

J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.

U = Qualifier denotes the analyte was analyzed for but was not detected above the detection limit.

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	ER204-01			ER204-02			ER204-03			ER204-04			SWB204-01		
		Sample Date:	10/2/2020			10/21/2020			10/28/2020			11/20/2020			10/15/2020		
		Sample Type:	EB			EB			EB			EB			SWB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	UJ	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	5.0
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	1.1	J	2.0	ND	U	2.0	1.8	J	2.0	2.8	J	2.0	1.6	J	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	UJ	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	0.54	J	0.50	0.50	J	0.50	ND	U	0.50	0.63	J	0.50	ND	U	0.50
		Bromoform	2.1	J	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	ER204-01			ER204-02			ER204-03			ER204-04			SWB204-01		
		Sample Date:	10/2/2020			10/21/2020			10/28/2020			11/20/2020			10/15/2020		
		Sample Type:	EB			EB			EB			EB			SWB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroform	0.35	J	0.50	ND	U	0.50	ND	U	0.50	0.60	J	0.50	ND	U	0.50
		Chloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	0.74	J	0.50	0.73	J	0.50	ND	U	0.50	0.80	J	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	U	4.0	ND	U	4.0	ND	U	4.0	ND	UJ	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	UU	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	1.7	--	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.8	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	ND	U	0.15	0.13	J	0.15	ND	U	0.15	0.26	--	0.15	ND	U	0.15
		Iron	ND	U	0.10	ND	U	0.10	ND	U	0.10	ND	U	0.10	ND	U	0.10
		Magnesium	ND	U	0.075	ND	U	0.075	ND	U	0.075	ND	U	0.075	ND	U	0.075
		Manganese	ND	U	0.0050	ND	U	0.0050	ND	U	0.0050	0.0046	J	0.0050	ND	U	0.0050
		Potassium	ND	U	0.38	ND	U	0.38	ND	U	0.38	ND	U	0.45	ND	U	0.38
		Sodium	ND	U	0.50	0.26	J	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
	Method SW6020A (mg/L)	Arsenic	ND	U	0.0016	ND	U	0.0016	ND	U	0.0016	ND	U	0.0016	ND	U	0.0016
		Lead	0.00023	J	0.00025	ND	U	0.00025	ND	U	0.00025	0.00012	J	0.00025	ND	U	0.00025

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	SWB204-02			TB204-01			TB204-02			TB204-03			TB204-04		
		Sample Date:	10/15/2020			10/1/2020			10/1/2020			10/1/2020			10/2/2020		
		Sample Type:	SWB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	UJ	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	UJ	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	0.65	J	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	5.9	--	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	SWB204-02			TB204-01			TB204-02			TB204-03			TB204-04		
		Sample Date:	10/15/2020			10/1/2020			10/1/2020			10/1/2020			10/2/2020		
		Sample Type:	SWB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroform	0.46	J	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	0.95	J	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	ND	U	0.15	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	ND	U	0.10	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	ND	U	0.075	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	ND	U	0.0050	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	ND	U	0.38	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	ND	U	0.50	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	ND	U	0.0016	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	ND	U	0.00025	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-05			TB204-06			TB204-07			TB204-08			TB204-09		
		Sample Date:	10/2/2020			10/5/2020			10/5/2020			10/5/2020			10/5/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,1,1-Trichloroethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,1,2-Trichloroethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,1-Dichloroethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,1-Dichloroethene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,1-Dichloropropene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		1,2,3-Trichloropropane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	UJ	2	ND	U	2	ND	UJ	2	ND	UJ	2
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		1,2-Dibromoethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,2-Dichlorobenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,2-Dichloroethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,2-Dichloropropane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		1,3-Dichlorobenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	U	0.5
		1,3-Dichloropropane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,4-Dichlorobenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		2,2-Dichloropropane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		2-Butanone	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		2-Chlorotoluene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		2-Hexanone	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		4-Chlorotoluene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		4-Isopropyltoluene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		4-Methyl-2-pentanone	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		Acetone	ND	U	2.0	ND	UJ	2	ND	U	2	ND	UJ	2	ND	UJ	2
		Acrolein	ND	U	5.0	ND	UJ	5	ND	U	5	ND	UJ	5	ND	UJ	5
		Acrylonitrile	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		Benzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Bromobenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Bromochloromethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Bromodichloromethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Bromoform	ND	U	2.0	ND	UJ	2	ND	U	2	ND	UJ	2	ND	UJ	2
		Bromomethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Carbon disulfide	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Carbon tetrachloride	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-05			TB204-06			TB204-07			TB204-08			TB204-09		
		Sample Date:	10/2/2020			10/5/2020			10/5/2020			10/5/2020			10/5/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Chloroethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Chloroform	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Chloromethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5
		Cis-1,3-dichloropropene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Dibromochloromethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Dibromomethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Dichlorodifluoromethane	ND	U	0.50	ND	UJ	0.5	—	—	—	ND	UJ	0.5	ND	UJ	0.5
		Ethylbenzene	ND	U	0.80	ND	UJ	0.8	ND	U	0.8	ND	UJ	0.8	ND	UJ	0.8
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	UJ	4	ND	U	4	ND	UJ	4	ND	UJ	4
		Isopropylbenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		m- & p-Xylenes	ND	U	2.0	ND	UJ	2	ND	U	2	ND	UJ	2	ND	UJ	2
		Methyl tert-butyl ether	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Methylene chloride	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Naphthalene	ND	U	2.0	ND	UJ	2	ND	U	2	ND	UJ	2	ND	UJ	2
		n-Butylbenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		n-Propylbenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		o-Xylene	ND	U	0.80	ND	UJ	0.8	ND	U	0.8	ND	UJ	0.8	ND	UJ	0.8
		sec-Butylbenzene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Styrene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		tert-Butylbenzene	ND	U	1.0	ND	UJ	1	ND	U	1	ND	UJ	1	ND	UJ	1
		Tetrachloroethene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Toluene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Trans-1,3-dichloropropene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Trichloroethene	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Trichlorofluoromethane	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Vinyl acetate	ND	U	2.0	ND	UJ	2	ND	U	2	ND	UJ	2	ND	UJ	2
		Vinyl chloride	ND	U	0.50	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Xylenes, total	ND	U	2.0	ND	UJ	2	ND	U	2	ND	UJ	2	ND	UJ	2
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-10			TB204-11			TB204-12			TB204-13			TB204-14		
		Sample Date:	10/5/2020			10/6/2020			10/6/2020			10/6/2020			10/6/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,1-Dichloropropene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	ND	UJ	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloropropane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		2-Chlorotoluene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		4-Chlorotoluene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Methyl-2-pentanone	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		Acetone	ND	UJ	2	ND	UJ	2	ND	UJ	2	ND	U	2	ND	UJ	2
		Acrolein	ND	UJ	5	ND	U	5	ND	U	5	ND	U	5	ND	U	5
		Acrylonitrile	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		Benzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromobenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	ND	UJ	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
		Bromomethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-10			TB204-11			TB204-12			TB204-13			TB204-14		
		Sample Date:	10/5/2020			10/6/2020			10/6/2020			10/6/2020			10/6/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroform	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloromethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,2-Dichloroethene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	ND	UJ	0.8	ND	U	0.8	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	ND	UJ	4	ND	U	4	ND	U	4	ND	U	4	ND	U	4
		Isopropylbenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		m- & p-Xylenes	ND	UJ	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
		Methyl tert-butyl ether	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Methylene chloride	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Naphthalene	ND	UJ	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
		n-Butylbenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		o-Xylene	ND	UJ	0.8	ND	U	0.8	ND	U	0.8	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Styrene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	ND	UJ	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
		Tetrachloroethene	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5
		Toluene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,2-Dichloroethene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	ND	UJ	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
		Vinyl chloride	ND	UJ	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, total	ND	UJ	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-15			TB204-16			TB204-17			TB204-18			TB204-19		
		Sample Date:	10/6/2020			10/7/2020			10/7/2020			10/7/2020			10/7/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	UJ	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	UJ	2	ND	U	2.0	1.3	J	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	U	5	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-15			TB204-16			TB204-17			TB204-18			TB204-19		
		Sample Date:	10/6/2020			10/7/2020			10/7/2020			10/7/2020			10/7/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	U	0.5	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Chloroform	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	U	0.5	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Cis-1,2-Dichloroethene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.8	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	U	4	ND	UJ	4.0	ND	UJ	4.0	ND	U	4.0	ND	UJ	4.0
		Isopropylbenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.8	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	UJ	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.5	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	U	0.5	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Xylenes, total	ND	U	2	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-20			TB204-21			TB204-22			TB204-23			TB204-24		
		Sample Date:	10/7/2020			10/7/2020			10/7/2020			10/8/2020			10/8/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

		Field Sample ID:	TB204-20			TB204-21			TB204-22			TB204-23			TB204-24		
		Sample Date:	10/7/2020			10/7/2020			10/7/2020			10/8/2020			10/8/2020		
		Sample Type:	TB			TB			TB			TB			TB		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	U	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0	ND	U	4.0	ND	U	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-25			TB204-26			TB204-27			TB204-28			TB204-29		
		Sample Date:	10/8/2020			10/8/2020			10/8/2020			10/9/2020			10/9/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-25			TB204-26			TB204-27			TB204-28			TB204-29		
		Sample Date:	10/8/2020			10/8/2020			10/8/2020			10/9/2020			10/9/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	U	4.0	ND	U	4.0	ND	U	4.0	ND	UJ	4.0	ND	UJ	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-30			TB204-31			TB204-32			TB204-33			TB204-34		
		Sample Date:	10/9/2020			10/9/2020			10/12/2020			10/12/2020			10/12/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	UJ	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-30			TB204-31			TB204-32			TB204-33			TB204-34		
		Sample Date:	10/9/2020			10/9/2020			10/12/2020			10/12/2020			10/12/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	UJ	4.0	ND	U	4.0	ND	UJ	4.0	ND	U	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-35			TB204-36			TB204-37			TB204-38			TB204-39		
		Sample Date:	10/12/2020			10/13/2020			10/13/2020			10/13/2020			10/13/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	UQ	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	UJ	2.0	ND	UJ	2.0	ND	UJ	2.0	ND	UJ	2.0
		Bromomethane	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Carbon disulfide	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

		Field Sample ID:	TB204-35			TB204-36			TB204-37			TB204-38			TB204-39		
		Sample Date:	10/12/2020			10/13/2020			10/13/2020			10/13/2020			10/13/2020		
		Sample Type:	TB			TB			TB			TB			TB		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	UJ	0.50	0.21	J	0.50	0.20	J	0.50	ND	UJ	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-40			TB204-41			TB204-42			TB204-43			TB204-44		
		Sample Date:	10/13/2020			10/13/2020			10/14/2020			10/14/2020			10/14/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	UJ	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	UJ	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Carbon disulfide	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

		Field Sample ID:	TB204-40			TB204-41			TB204-42			TB204-43			TB204-44		
		Sample Date:	10/13/2020			10/13/2020			10/14/2020			10/14/2020			10/14/2020		
		Sample Type:	TB			TB			TB			TB			TB		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	U	4.0	ND	U	4.0	ND	U	4.0	ND	U	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	UJ	0.50	0.46	J	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-45			TB204-46			TB204-47			TB204-48			TB204-49		
		Sample Date:	10/14/2020			10/14/2020			10/15/2020			10/15/2020			10/15/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	2.4	J	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	UJ	2.0	0.82	J	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	UJ	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

		Field Sample ID:	TB204-45			TB204-46			TB204-47			TB204-48			TB204-49		
		Sample Date:	10/14/2020			10/14/2020			10/15/2020			10/15/2020			10/15/2020		
		Sample Type:	TB			TB			TB			TB			TB		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	U	4.0	ND	U	4.0	ND	U	4.0	ND	UJ	4.0	ND	U	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	U	0.50	ND	UJ	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-50			TB204-51			TB204-52			TB204-53			TB204-54		
		Sample Date:	10/15/2020			10/16/2020			10/16/2020			10/19/2020			10/20/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	UJ	1.0	ND	UJ	1.0	ND	UJ	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	UJ	1.0	ND	UJ	1.0	ND	UJ	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	5.0	2.4	J	0.50	2.4	J	0.50	2.4	J	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	UJ	2.0	ND	UJ	2.0	ND	UJ	2.0	ND	U	2.0
		Acrolein	ND	U	5.0	ND	UJ	5.0	ND	UJ	5.0	ND	UJ	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	UJ	1.0	ND	UJ	1.0	ND	UJ	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-50			TB204-51			TB204-52			TB204-53			TB204-54		
		Sample Date:	10/15/2020			10/16/2020			10/16/2020			10/19/2020			10/20/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	U	4.0	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0	ND	UJ	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	5.0	2.2	J	0.50	2.2	J	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-55			TB204-56			TB204-57			TB204-58			TB204-59		
		Sample Date:	10/20/2020			10/21/2020			10/21/2020			10/21/2020			10/21/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	2.4	J	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-55			TB204-56			TB204-57			TB204-58			TB204-59		
		Sample Date:	10/20/2020			10/21/2020			10/21/2020			10/21/2020			10/21/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50	ND	UJ	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	U	4.0	ND	U	4.0	ND	U	4.0	ND	U	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	2.2	J	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	UJ	2.0	ND	UJ	2.0	ND	UJ	2.0
		Vinyl chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-60			TB204-61			TB204-62			TB204-63			TB204-64		
		Sample Date:	10/22/2020			10/22/2020			10/22/2020			10/22/2020			10/23/2020		
		Sample Type:	TB			TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	UJ	1.0	ND	UJ	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	UJ	1.0	ND	UJ	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

		Field Sample ID:	TB204-60			TB204-61			TB204-62			TB204-63			TB204-64		
		Sample Date:	10/22/2020			10/22/2020			10/22/2020			10/22/2020			10/23/2020		
		Sample Type:	TB			TB			TB			TB			TB		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	UJ	4.0	ND	U	4.0	ND	U	4.0	ND	UJ	4.0	ND	UJ	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	ND	U	0.50	0.66	J	0.50	0.66	J	0.50	0.58	J	0.50	0.55	J	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-65			TB204-66			TB204-67			TB204-68		
		Sample Date:	10/23/2020			10/29/2020			10/29/2020			10/30/2020		
		Sample Type:	TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	U	0.019	ND	U	0.019	ND	U	0.019	ND	UJ	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	UJ	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Acetone	ND	U	2.0	ND	UJ	2.0	ND	UJ	2.0	ND	UJ	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50

Table 4
Field Quality Control Samples, Q4 2020

		Field Sample ID:	TB204-65			TB204-66			TB204-67			TB204-68		
		Sample Date:	10/23/2020			10/29/2020			10/29/2020			10/30/2020		
		Sample Type:	TB			TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	U	4.0	ND	U	4.0	ND	U	4.0	ND	U	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Toluene	0.54	J	0.50	ND	U	0.50	ND	U	0.50	0.62	J	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	UJ	0.50	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.0	ND	U	2.0	ND	U	2.0
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

Parameter	Analytical Method	Field Sample ID:	TB204-69			TB204-70			TB204-71		
		Sample Date:	10/30/2020			11/24/2020			11/24/2020		
		Sample Type:	TB			TB			TB		
		Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	ND	UJ	0.019	ND	U	0.019	ND	U	0.019
VOCs	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,1-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2,2-Tetrachloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1,2-Trichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,1-Dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,3-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,3-Trichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2,4-Trichlorobenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2,4-Trimethylbenzene	ND	U	2.0	ND	U	2.0	ND	U	2.0
		1,2-Dibromo-3-chloropropane	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,2-Dibromoethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3,5-Trimethylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0
		1,3-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,3-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		1,4-Dichlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2,2-Dichloropropane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Butanone	ND	U	1.0	ND	UJ	1.0	ND	UJ	1.0
		2-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		2-Hexanone	ND	U	1.0	ND	U	1.0	ND	U	1.0
		4-Chlorotoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Isopropyltoluene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		4-Methyl-2-pentanone	ND	U	1.0	ND	UJ	1.0	ND	UJ	1.0
		Acetone	ND	UJ	2.0	ND	UJ	2.0	ND	UJ	2.0
		Acrolein	ND	U	5.0	ND	U	5.0	ND	U	5.0
		Acrylonitrile	ND	U	1.0	ND	UJ	1.0	ND	UJ	1.0
		Benzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromodichloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Bromoform	ND	U	2.0	ND	UJ	2.0	ND	UJ	2.0
		Bromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon disulfide	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Carbon tetrachloride	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50

Table 4
Field Quality Control Samples, Q4 2020

		Field Sample ID:	TB204-69			TB204-70			TB204-71		
		Sample Date:	10/30/2020			11/24/2020			11/24/2020		
		Sample Type:	TB			TB			TB		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
VOCs	Method SW8260C (µg/L)	Chlorobenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloroform	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Chloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Cis-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromochloromethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dibromomethane	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Dichlorodifluoromethane	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Ethylbenzene	ND	U	0.80	ND	U	0.80	ND	U	0.80
		Hexachloro-1,3-butadiene	ND	U	4.0	ND	UJ	4.0	ND	UJ	4.0
		Isopropylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		m- & p-Xylenes	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Methyl tert-butyl ether	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Methylene chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Naphthalene	ND	U	2.0	ND	U	2.0	ND	U	2.0
		n-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		n-Propylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		o-Xylene	ND	U	0.80	ND	U	0.80	ND	U	0.80
		sec-Butylbenzene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Styrene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		tert-Butylbenzene	ND	U	1.0	ND	U	1.0	ND	U	1.0
		Tetrachloroethene	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Toluene	0.63	J	0.50	0.59	J	0.50	ND	U	0.50
		Trans-1,2-Dichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trans-1,3-dichloropropene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichloroethene	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Trichlorofluoromethane	ND	U	0.50	ND	UJ	0.50	ND	UJ	0.50
		Vinyl acetate	ND	U	2.0	ND	U	2.0	ND	U	2.0
		Vinyl chloride	ND	U	0.50	ND	U	0.50	ND	U	0.50
		Xylenes, total	ND	U	2.0	ND	U	2.8	ND	U	2.8
Metals	Method SW6010C (mg/L)	Calcium	—	—	—	—	—	—	—	—	—
		Iron	—	—	—	—	—	—	—	—	—
		Magnesium	—	—	—	—	—	—	—	—	—
		Manganese	—	—	—	—	—	—	—	—	—
		Potassium	—	—	—	—	—	—	—	—	—
		Sodium	—	—	—	—	—	—	—	—	—
	Method SW6020A (mg/L)	Arsenic	—	—	—	—	—	—	—	—	—
		Lead	—	—	—	—	—	—	—	—	—

Table 4
Field Quality Control Samples, Q4 2020

µg/L = microgram per liter.
EB = equipment rinse blank
FB = field blank
ID = identification
LOD = limit of detection
mg/L = milligram per liter
ND = not detected above the detection limit
SWB = source water blank
TB = trip blank
Val Qual = validation qualifier
VOC = volatile organic compound

Shading = detected concentrations above the detection limit

Qualifiers:
Val Qual based on independent data validation.
J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.
U = Qualifier denotes the analyte was analyzed but not detected above the detection limit. The value associated with the U-qualifier is the LOD.
-- = Compound not analyzed for and/or validation qualifier not assigned.
— = Compound not analyzed for.

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106008			KAFB-106008			KAFB-106010		
			Field Sample ID:				GW008-204			GW008-604			GW010-204		
			Sample Date:				10/21/2020			10/21/2020			10/22/2020		
			Sample Type:				REG			Field Duplicate			REG		
			Sample Depth (ft bgs):				488			488			506		
			Reference Elevation Interval (ft AMSL):				4857			4857			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	8	--	1.9	8.3	--	1.9	8.2	--	0.96
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	10	ND	U	10	ND	U	5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	10	ND	U	10	ND	U	5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	10	ND	U	10	ND	U	5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	10	ND	U	10	ND	U	5
		1,1-Dichloroethane	25	NS	28	25	ND	U	10	ND	U	10	ND	U	5
		1,1-Dichloroethene	7	7	280	7	ND	U	10	ND	U	10	ND	U	5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	10	ND	U	10	ND	U	5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	20	ND	U	20	ND	U	10
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	10	ND	U	10	ND	U	5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	20	ND	U	20	ND	U	10
		1,2,4-Trimethylbenzene	NS	NS	56	56	63	J	40	61	J	40	43	J	20
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	20	ND	U	20	ND	U	10
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	10	ND	U	10	8.1	J	5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	10	ND	U	10	ND	U	5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	10	ND	U	10	ND	U	5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	10	ND	U	10	ND	U	5
		1,3,5-Trimethylbenzene	NS	NS	60	60	19	J	20	18	J	20	16	J	10
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	10	ND	U	10	ND	U	5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	10	ND	U	10	ND	U	5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	10	ND	U	10	ND	U	5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	10	ND	U	10	ND	U	5
		2-Butanone	NS	NS	5,600	5,600	39	J	20	35	J	20	ND	U	10
		2-Chlorotoluene	NS	NS	240	240	ND	U	10	ND	U	10	ND	U	5
		2-Hexanone	NS	NS	38	38	380	--	20	390	--	20	ND	UJ	10
		4-Chlorotoluene	NS	NS	250	250	ND	U	10	ND	U	10	ND	U	5
		4-Isopropyltoluene	NS	NS	NS	NS	17	J	10	18	J	10	27	J	5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	230	--	20	270	--	20	ND	U	10
		Acetone	NS	NS	14,000	14,000	110	J	40	96	J	40	14	J	20
		Acrolein	NS	NS	0.042	0.042	ND	U	100	ND	U	100	ND	U	50
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	20	ND	U	20	ND	U	10
		Benzene	5	5	4.6	5	11,000	--	100	11,000	--	100	1,400	--	5
		Bromobenzene	NS	NS	62	62	ND	U	10	ND	U	10	ND	U	5
		Bromochloromethane	NS	NS	83	83	ND	U	10	ND	U	10	ND	U	5
		Bromodichloromethane	NS	80	1.3	80	ND	U	10	ND	U	10	ND	U	5
		Bromoform	NS	80	33	80	ND	U	40	ND	U	40	ND	U	20
		Bromomethane	NS	NS	7.5	7.5	ND	U	10	ND	U	10	ND	U	5
		Carbon disulfide	NS	NS	810	810	ND	U	10	ND	U	10	ND	U	5
		Carbon tetrachloride	5	5	4.6	5	ND	U	10	ND	U	10	ND	U	5
		Chlorobenzene	NS	100	78	100	ND	U	10	ND	U	10	ND	U	5
		Chloroethane	NS	NS	21,000	21,000	ND	U	10	ND	U	10	ND	UJ	5
		Chloroform	100	80	2.2	80	ND	U	10	ND	U	10	ND	U	5
		Chloromethane	NS	NS	190	190	ND	U	10	ND	U	10	ND	UJ	5

Table 5
Field Duplicate Sample Results, Q4 2020

Well Location ID:						KAFB-106008			KAFB-106008			KAFB-106010			
Field Sample ID:						GW008-204			GW008-604			GW010-204			
Sample Date:						10/21/2020			10/21/2020			10/22/2020			
Sample Type:						REG			Field Duplicate			REG			
Sample Depth (ft bgs):						488			488			506			
Reference Elevation Interval (ft AMSL):						4857			4857			4857			
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	10	ND	U	10	ND	U	5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	10	ND	U	10	ND	U	5
		Dibromochloromethane	NS	80	8.7	80	ND	U	10	ND	U	10	ND	U	5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	10	ND	U	10	ND	U	5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	10	ND	U	10	ND	U	5
		Ethylbenzene	700	700	15	700	310	--	16	310	--	16	510	--	8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	U	80	ND	U	80	ND	UJ	40
		Isopropylbenzene	NS	NS	450	450	80	J	10	83	J	10	30	J	5
		m- & p-Xylenes	NS	NS	NS	NS	640	--	40	660	--	40	610	--	20
		Methyl tert-butyl ether	100	NS	140	100	ND	U	10	ND	U	10	ND	U	5
		Methylene chloride	5	5	110	5	ND	U	10	ND	U	10	ND	U	5
		Naphthalene	30	NS	1.2	30	29	J	40	30	J	40	24	J	20
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	10	ND	U	10	ND	U	5
		n-Propylbenzene	NS	NS	660	660	18	J	10	18	J	10	20	J	5
		o-Xylene	NS	NS	190	190	230	--	16	220	--	16	320	--	8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	10	ND	U	10	25	J	5
		Styrene	100	100	1,200	100	ND	U	10	ND	U	10	ND	U	5
		tert-Butylbenzene	NS	NS	690	690	ND	U	20	ND	U	20	ND	U	10
		Tetrachloroethene	5	5	110	5	ND	U	10	ND	U	10	ND	U	5
		Toluene	1,000	1,000	1,100	1,000	5,500	--	10	5,700	--	10	3,500	--	50
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	10	ND	U	10	ND	U	5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	10	ND	U	10	ND	U	5
		Trichloroethene	5	5	4.9	5	ND	U	10	ND	U	10	ND	U	5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	10	ND	U	10	ND	U	5
		Vinyl acetate	NS	NS	410	410	ND	U	40	ND	U	40	ND	U	20
		Vinyl chloride	2	2	0.19	2	ND	U	10	ND	U	10	ND	UJ	5
		Xylenes, total	620	10,000	190	620	870	--	40	880	--	40	930	--	20
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	150	--	0.15	140	--	0.15	65	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	8.3	--	0.1	8.2	--	0.1	0.86	--	0.1
		Magnesium	NS	NS	NS	NS	24	--	0.075	24	--	0.075	9.4	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	7.3	--	0.0052	7.2	--	0.0052	1.8	--	0.0052
		Potassium	NS	NS	NS	NS	3.6	--	0.38	3.5	--	0.38	2.7	--	0.38
		Sodium	NS	NS	NS	NS	39	--	0.5	38	--	0.5	29	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	0.0013	J	0.0016	0.0013	J	0.0016	ND	U	0.0016
		Lead	0.015	0.015	0.015	0.015	0.00048	J	0.00025	0.00049	J	0.00025	0.000091	J	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	2.1	J	2	1.7	J	2	ND	U	2
		Chloride	250	NS	NS	250	91	--	6	89	--	7.5	23	--	1.5
		Sulfate	600	NS	NS	600	1.6	J	4.5	1.9	J	4.5	3.1	J	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	ND	U	0.09	ND	U	0.09	ND	U	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	400	--	6	390	--	6	220	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	400	--	6	390	--	6	220	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106010			KAFB-106014			KAFB-106014		
			Field Sample ID:				GW010-604			GW014-204			GW014-604		
			Sample Date:				10/22/2020			10/29/2020			10/29/2020		
			Sample Type:				Field Duplicate			REG			Field Duplicate		
			Sample Depth (ft bgs):				506			491			491		
			Reference Elevation Interval (ft AMSL):				4857			4857			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	7.8	--	0.96	2.6	--	0.19	2.7	--	0.19
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	2.5	ND	U	5	ND	U	25
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	2.5	ND	U	5	ND	U	25
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	2.5	ND	U	5	ND	U	25
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	2.5	ND	U	5	ND	U	25
		1,1-Dichloroethane	25	NS	28	25	ND	U	2.5	ND	U	5	ND	U	25
		1,1-Dichloroethene	7	7	280	7	ND	U	2.5	ND	U	5	ND	U	25
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	2.5	ND	U	5	ND	U	25
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	5	ND	U	10	ND	U	50
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	2.5	ND	U	5	ND	U	25
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	5	ND	U	10	ND	U	50
		1,2,4-Trimethylbenzene	NS	NS	56	56	44	--	10	130	--	20	110	J	100
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	5	ND	U	10	ND	U	50
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	8.1	--	2.5	ND	U	5	ND	U	25
		1,2-Dichlorobenzene	600	600	300	600	ND	U	2.5	ND	U	5	ND	U	25
		1,2-Dichloroethane	5	5	1.7	5	ND	U	2.5	6.9	J	5	ND	U	25
		1,2-Dichloropropane	5	5	8.5	5	ND	U	2.5	ND	U	5	ND	U	25
		1,3,5-Trimethylbenzene	NS	NS	60	60	16	J	5	43	J	10	40	J	50
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	2.5	ND	U	5	ND	U	25
		1,3-Dichloropropane	NS	NS	370	370	ND	U	2.5	ND	U	5	ND	U	25
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	2.5	ND	U	5	ND	U	25
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	2.5	ND	U	5	ND	U	25
		2-Butanone	NS	NS	5,600	5,600	1.6	J	5	9.5	J	10	ND	U	50
		2-Chlorotoluene	NS	NS	240	240	ND	U	2.5	ND	U	5	ND	U	25
		2-Hexanone	NS	NS	38	38	ND	UJ	5	180	--	10	180	J	50
		4-Chlorotoluene	NS	NS	250	250	ND	U	2.5	ND	U	5	ND	U	25
		4-Isopropyltoluene	NS	NS	NS	NS	15	J	2.5	47	J	5	39	J	25
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	5	230	--	10	220	J	50
		Acetone	NS	NS	14,000	14,000	12	J	10	ND	UJ	20	--	--	--
		Acrolein	NS	NS	0.042	0.042	ND	U	25	ND	U	50	ND	U	250
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	5	ND	U	10	ND	U	50
		Benzene	5	5	4.6	5	1,400	--	2.5	6,100	--	50	5,700	--	25
		Bromobenzene	NS	NS	62	62	ND	U	2.5	ND	U	5	ND	U	25
		Bromochloromethane	NS	NS	83	83	ND	U	2.5	ND	U	5	ND	U	25
		Bromodichloromethane	NS	80	1.3	80	ND	U	2.5	ND	U	5	ND	U	25
		Bromoform	NS	80	33	80	ND	U	10	ND	U	20	ND	U	100
		Bromomethane	NS	NS	7.5	7.5	ND	U	2.5	ND	U	5	ND	U	25
		Carbon disulfide	NS	NS	810	810	ND	U	2.5	ND	U	5	ND	U	25
		Carbon tetrachloride	5	5	4.6	5	ND	U	2.5	ND	U	5	ND	U	25
		Chlorobenzene	NS	100	78	100	ND	U	2.5	ND	U	5	ND	U	25
		Chloroethane	NS	NS	21,000	21,000	ND	UJ	2.5	ND	U	5	ND	U	25
		Chloroform	100	80	2.2	80	ND	U	2.5	ND	U	5	ND	U	25
		Chloromethane	NS	NS	190	190	ND	UJ	2.5	ND	U	5	ND	U	25

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106010			KAFB-106014			KAFB-106014		
			Field Sample ID:				GW010-604			GW014-204			GW014-604		
			Sample Date:				10/22/2020			10/29/2020			10/29/2020		
			Sample Type:				Field Duplicate			REG			Field Duplicate		
			Sample Depth (ft bgs):				506			491			491		
			Reference Elevation Interval (ft AMSL):				4857			4857			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	2.5	ND	U	5	ND	U	25
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	2.5	ND	U	5	ND	U	25
		Dibromochloromethane	NS	80	8.7	80	ND	U	2.5	ND	U	5	ND	U	25
		Dibromomethane	NS	NS	8.3	8.3	ND	U	2.5	ND	U	5	ND	U	25
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	2.5	ND	UJ	5	ND	UJ	25
		Ethylbenzene	700	700	15	700	520	--	4	800	--	8	770	--	40
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	UJ	20	ND	U	40	ND	U	200
		Isopropylbenzene	NS	NS	450	450	31	--	2.5	320	--	5	280	--	25
		m- & p-Xylenes	NS	NS	NS	NS	620	--	10	1,300	--	20	1,200	--	100
		Methyl tert-butyl ether	100	NS	140	100	ND	U	2.5	ND	U	5	ND	U	25
		Methylene chloride	5	5	110	5	ND	U	2.5	ND	U	5	ND	U	25
		Naphthalene	30	NS	1.2	30	25	--	10	83	--	20	72	J	100
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	2.5	2.1	J	5	ND	U	25
		n-Propylbenzene	NS	NS	660	660	20	J	2.5	33	J	5	30	J	25
		o-Xylene	NS	NS	190	190	320	--	4	570	--	8	520	--	40
		sec-Butylbenzene	NS	NS	2,000	2,000	14	J	2.5	4.8	J	5	ND	U	25
		Styrene	100	100	1,200	100	ND	U	2.5	ND	U	5	ND	U	25
		tert-Butylbenzene	NS	NS	690	690	ND	U	5	ND	U	10	ND	U	50
		Tetrachloroethene	5	5	110	5	ND	U	2.5	ND	U	5	ND	U	25
		Toluene	1,000	1,000	1,100	1,000	3,400	--	25	6,300	--	50	5,800	--	25
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	2.5	ND	U	5	ND	U	25
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	2.5	ND	U	5	ND	U	25
		Trichloroethene	5	5	4.9	5	ND	U	2.5	ND	U	5	ND	U	25
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	2.5	ND	U	5	ND	U	25
		Vinyl acetate	NS	NS	410	410	ND	U	10	ND	U	20	ND	U	100
		Vinyl chloride	2	2	0.19	2	ND	UJ	2.5	ND	U	5	ND	U	25
		Xylenes, total	620	10,000	190	620	940	--	10	1,900	--	20	1,700	--	100
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	66	--	0.15	180	--	0.15	180	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	0.85	--	0.1	4.5	--	0.1	4.5	--	0.1
		Magnesium	NS	NS	NS	NS	9.5	--	0.075	29	--	0.075	29	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	1.7	--	0.0052	5.8	--	0.0052	5.9	--	0.0052
		Potassium	NS	NS	NS	NS	2.7	--	0.38	4.9	--	0.38	4.9	--	0.38
		Sodium	NS	NS	NS	NS	29	--	0.5	45	--	0.5	45	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	ND	U	0.0016	0.003	--	0.0016	0.0033	--	0.0016
		Lead	0.015	0.015	0.015	0.015	0.0001	J	0.00025	0.0039	--	0.00025	0.0034	--	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	U	2	2.8	--	2	2.8	--	2
		Chloride	250	NS	NS	250	23	--	1.5	130	--	15	130	--	15
		Sulfate	600	NS	NS	600	3.1	J	4.5	ND	U	4.5	ND	U	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	ND	U	0.09	ND	U	0.09	ND	U	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	220	--	6	480	--	6	480	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	220	--	6	480	--	6	480	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106017			KAFB-106017			KAFB-106037		
			Field Sample ID:				GW017-204			GW017-604			GW037-204		
			Sample Date:				10/19/2020			10/19/2020			10/9/2020		
			Sample Type:				REG			Field Duplicate			REG		
			Sample Depth (ft bgs):										507.75		
			Reference Elevation Interval (ft AMSL):				4857 & 4838			4857 & 4838			4838		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	0.15	--	0.019	0.15	--	0.019	0.059	J	0.019
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	0.3	J	0.5	0.31	J	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	1.9	--	0.5	2	--	0.5	ND	U	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	U	1	ND	U	1	ND	UJ	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	ND	U	1	ND	U	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	ND	U	1	ND	U	1
		Acetone	NS	NS	14,000	14,000	7.5	J	2	6.2	J	2	ND	UJ	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	U	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	U	1	ND	U	1
		Benzene	5	5	4.6	5	0.7	J	0.5	0.74	J	0.5	ND	U	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	U	2	ND	U	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroform	100	80	2.2	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloromethane	NS	NS	190	190	ND	U	0.5	ND	U	0.5	ND	U	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106017			KAFB-106017			KAFB-106037		
			Field Sample ID:				GW017-204			GW017-604			GW037-204		
			Sample Date:				10/19/2020			10/19/2020			10/9/2020		
			Sample Type:				REG			Field Duplicate			REG		
			Sample Depth (ft bgs):										507.75		
			Reference Elevation Interval (ft AMSL):				4857 & 4838			4857 & 4838			4838		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	UJ	4	ND	UJ	4	ND	U	4
		Isopropylbenzene	NS	NS	450	450	14	--	0.5	16	--	0.5	ND	U	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	ND	U	2	ND	U	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Methylene chloride	5	5	110	5	0.43	J	0.5	0.44	J	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	ND	U	2	ND	U	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	NS	NS	660	660	0.62	J	0.5	0.4	J	0.5	ND	U	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	5	ND	U	5	ND	U	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	4.8	J	1	4.8	J	1	ND	U	1
		Tetrachloroethene	5	5	110	5	0.37	J	0.5	0.36	J	0.5	ND	UJ	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	U	2	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	52	--	0.15	51	--	0.15	36	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	0.071	J	0.1	0.088	J	0.1	ND	U	0.1
		Magnesium	NS	NS	NS	NS	7.4	--	0.075	7.3	--	0.075	5	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	0.19	--	0.0052	0.19	--	0.0052	ND	U	0.0052
		Potassium	NS	NS	NS	NS	2.5	--	0.38	2.5	--	0.38	1.7	--	0.38
		Sodium	NS	NS	NS	NS	26	--	0.5	26	--	0.5	22	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	0.0011	J	0.0016	0.00095	J	0.0016	0.00087	J	0.0016
		Lead	0.015	0.015	0.015	0.015	ND	U	0.00025	ND	U	0.00025	ND	U	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	U	2	ND	U	2	ND	UJ	2
		Chloride	250	NS	NS	250	17	--	1.5	16	--	1.5	14	--	1.5
		Sulfate	600	NS	NS	600	38	--	4.5	38	--	4.5	33	--	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	ND	U	0.09	ND	U	0.09	0.27	U	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	140	--	6	140	--	6	110	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	140	--	6	140	--	6	110	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

		Well Location ID:					KAFB-106037			KAFB-106044			KAFB-106044		
		Field Sample ID:					GW037-604			GW044-204			GW044-604		
		Sample Date:					10/9/2020			10/1/2020			10/1/2020		
		Sample Type:					Field Duplicate			REG			Field Duplicate		
		Sample Depth (ft bgs):					507.75			506.2			506.2		
		Reference Elevation Interval (ft AMSL):					4838			4838			4838		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	0.09	J	0.02	ND	U	0.019	ND	U	0.019
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	UJ	1	ND	U	1	ND	U	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	ND	U	1	ND	U	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	ND	U	1	ND	U	1
		Acetone	NS	NS	14,000	14,000	ND	UJ	2	ND	U	2	ND	U	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	U	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	U	1	ND	U	1
		Benzene	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	U	2	ND	U	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroform	100	80	2.2	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloromethane	NS	NS	190	190	ND	U	0.5	ND	U	0.5	ND	U	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106037			KAFB-106044			KAFB-106044		
			Field Sample ID:				GW037-604			GW044-204			GW044-604		
			Sample Date:				10/9/2020			10/1/2020			10/1/2020		
			Sample Type:				Field Duplicate			REG			Field Duplicate		
			Sample Depth (ft bgs):				507.75			506.2			506.2		
			Reference Elevation Interval (ft AMSL):				4838			4838			4838		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	U	4	ND	U	4	ND	UJ	4
		Isopropylbenzene	NS	NS	450	450	ND	U	0.5	ND	U	0.5	ND	U	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	ND	U	2	ND	U	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Methylene chloride	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	ND	U	2	ND	U	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	NS	NS	660	660	ND	U	0.5	ND	U	0.5	ND	U	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	ND	U	1	ND	U	1	ND	U	1
		Tetrachloroethene	5	5	110	5	ND	UJ	0.5	ND	U	0.5	ND	U	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	--	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	U	2	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	38	--	0.15	37	--	0.15	35	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	ND	U	0.1	ND	U	0.1	ND	U	0.1
		Magnesium	NS	NS	NS	NS	5.2	--	0.075	4.9	--	0.075	5.2	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	ND	U	0.0052	ND	U	0.0052	ND	U	0.0052
		Potassium	NS	NS	NS	NS	1.8	--	0.38	2.2	--	0.38	2.2	--	0.38
		Sodium	NS	NS	NS	NS	22	--	0.5	21	--	0.5	21	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	0.001	J	0.0016	0.0012	J	0.0016	0.0013	J	0.0016
		Lead	0.015	0.015	0.015	0.015	ND	U	0.00025	ND	U	0.00025	ND	U	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	UJ	2	ND	UJ	2	ND	J	2
		Chloride	250	NS	NS	250	15	--	1.5	22	J	15	24	J	15
		Sulfate	600	NS	NS	600	35	--	4.5	31	J	4.5	30	J	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	0.26	--	0.09	1.9	--	0.09	1.9	--	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	110	--	6	100	--	6	100	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	110	--	6	100	--	6	100	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106051			KAFB-106051			KAFB-106070		
			Field Sample ID:				GW051-204			GW051-604			GW070-204		
			Sample Date:				10/15/2020			10/15/2020			10/13/2020		
			Sample Type:				REG			Field Duplicate			REG		
			Sample Depth (ft bgs):				501.5			501.5			460.7		
			Reference Elevation Interval (ft AMSL):				4814			4814			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.019	ND	U	0.019	ND	U	0.019
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	0.5	ND	U	0.5	0.31	J	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	U	1	ND	UJ	1	ND	U	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	ND	UJ	1	ND	U	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	ND	U	0.5	ND	U	5	ND	U	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	ND	U	1	ND	U	1
		Acetone	NS	NS	14,000	14,000	ND	U	2	ND	UJ	2	2.1	J	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	UJ	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	UJ	1	ND	U	1
		Benzene	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	U	2	ND	U	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	UJ	0.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	UJ	0.5	ND	U	0.5	ND	U	0.5
		Chloroform	100	80	2.2	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloromethane	NS	NS	190	190	ND	UJ	0.5	ND	U	0.5	ND	U	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106051			KAFB-106051			KAFB-106070		
			Field Sample ID:				GW051-204			GW051-604			GW070-204		
			Sample Date:				10/15/2020			10/15/2020			10/13/2020		
			Sample Type:				REG			Field Duplicate			REG		
			Sample Depth (ft bgs):				501.5			501.5			460.7		
			Reference Elevation Interval (ft AMSL):				4814			4814			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	U	4	ND	UJ	4	ND	U	4
		Isopropylbenzene	NS	NS	450	450	ND	U	0.5	ND	U	0.5	ND	U	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	ND	U	2	ND	U	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Methylene chloride	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	ND	U	2	ND	U	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	NS	NS	660	660	ND	U	0.5	ND	U	0.5	ND	U	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	ND	U	1	ND	U	1	ND	U	1
		Tetrachloroethene	5	5	110	5	ND	UJ	0.5	ND	U	0.5	ND	UJ	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	UJ	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	U	2	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	UJ	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	73	--	0.15	73	--	0.15	71	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	ND	U	0.1	ND	U	0.1	ND	U	0.1
		Magnesium	NS	NS	NS	NS	10	--	0.075	10	--	0.075	10	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	ND	U	0.0052	ND	U	0.0052	ND	U	0.0052
		Potassium	NS	NS	NS	NS	2.9	--	0.38	2.9	--	0.38	3.1	--	0.38
		Sodium	NS	NS	NS	NS	29	--	0.5	29	--	0.5	28	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	0.00077	J	0.0016	0.00072	J	0.0016	ND	U	0.0016
		Lead	0.015	0.015	0.015	0.015	ND	U	0.00025	ND	U	0.00025	0.00016	J	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	1.7	J	2	1.8	J	2	1.8	J	2
		Chloride	250	NS	NS	250	84	--	15	84	--	15	78	--	15
		Sulfate	600	NS	NS	600	98	--	45	110	--	45	56	U	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	2.4	--	0.18	2.5	--	0.18	ND	U	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	80	--	6	79	--	6	130	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	80	--	6	79	J	6	130	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

Parameter	Analytical Method	Analyte	Well Location ID:				KAFB-106070			KAFB-106076			KAFB-106076		
			Field Sample ID:				GW070-604			GW076-204			GW076-604		
			Sample Date:				10/13/2020			10/30/2020			10/30/2020		
			Sample Type:				Field Duplicate			REG			Field Duplicate		
			Sample Depth (ft bgs):				460.7			482			482		
			Reference Elevation Interval (ft AMSL):				4857			4857			4857		
			NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.019	ND	U	0.096	ND	U	0.096
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	47	--	2	47	--	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	0.37	J	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	11	--	1	11	--	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	U	1	9.9	J	1	10	--	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	400	--	1	410	--	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	ND	U	0.5	3.3	J	0.5	3.2	J	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	220	--	1	220	--	1
		Acetone	NS	NS	14,000	14,000	2.3	J	2	53	J	2	48	J	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	U	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	U	1	ND	U	1
		Benzene	5	5	4.6	5	ND	U	0.5	16	--	0.5	17	--	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	U	2	ND	U	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroform	100	80	2.2	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloromethane	NS	NS	190	190	ND	U	0.5	ND	U	0.5	ND	U	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106070			KAFB-106076			KAFB-106076		
			Field Sample ID:				GW070-604			GW076-204			GW076-604		
			Sample Date:				10/13/2020			10/30/2020			10/30/2020		
			Sample Type:				Field Duplicate			REG			Field Duplicate		
			Sample Depth (ft bgs):				460.7			482			482		
			Reference Elevation Interval (ft AMSL):				4857			4857			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	67	--	0.8	68	--	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	U	4	ND	U	4	ND	U	4
		Isopropylbenzene	NS	NS	450	450	ND	U	0.5	13	--	0.5	13	--	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	130	--	2	130	--	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	0.28	J	0.5	0.27	J	0.5
		Methylene chloride	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	20	--	2	20	--	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	1.9	J	0.5	1.8	J	0.5
		n-Propylbenzene	NS	NS	660	660	ND	U	0.5	13	--	0.5	14	--	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	17	--	0.8	17	--	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	0.5	3.7	J	0.5	3.6	J	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	ND	U	1	ND	U	1	ND	U	1
		Tetrachloroethene	5	5	110	5	ND	UJ	0.5	ND	U	0.5	ND	U	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	9.8	--	0.5	10	--	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	U	2	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	150	--	2	150	--	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	73	J	0.15	170	--	0.15	170	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	ND	U	0.1	5.8	--	0.1	5.8	--	0.1
		Magnesium	NS	NS	NS	NS	10	J	0.075	25	--	0.075	24	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	ND	U	0.0052	4.3	--	0.0052	4.3	--	0.0052
		Potassium	NS	NS	NS	NS	3.1	--	0.38	4.3	--	0.38	4.2	--	0.38
		Sodium	NS	NS	NS	NS	29	J	0.5	39	--	0.5	38	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	ND	U	0.0016	0.00095	J	0.0016	0.00078	J	0.0016
		Lead	0.015	0.015	0.015	0.015	0.00015	J	0.00025	0.00057	--	0.00025	0.00053	--	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	1.8	J	2	1.6	J	2	1.5	J	2
		Chloride	250	NS	NS	250	82	--	15	28	--	1.5	28	--	1.5
		Sulfate	600	NS	NS	600	59	--	4.5	ND	U	4.5	2.2	J	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	ND	U	0.09	ND	U	0.09	ND	U	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	130	--	6	510	--	6	500	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	130	--	6	510	J	6	500	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106085			KAFB-106085			KAFB-106091		
			Field Sample ID:				GW085-204			GW085-604			GW091-204		
			Sample Date:				10/13/2020			10/13/2020			10/9/2020		
			Sample Type:				REG			Field Duplicate			REG		
			Sample Depth (ft bgs):				447.2			447.2			454.7		
			Reference Elevation Interval (ft AMSL):				4857			4857			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.019	ND	U	0.019	ND	U	0.019
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	U	1	ND	U	1	ND	UJ	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	ND	U	1	ND	U	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	ND	U	1	ND	U	1
		Acetone	NS	NS	14,000	14,000	ND	U	2	ND	U	2	ND	UJ	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	U	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	U	1	ND	U	1
		Benzene	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	UJ	2	ND	UJ	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	UJ	0.5	ND	UJ	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	UJ	0.5	ND	UJ	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	UJ	0.5	ND	UJ	0.5	ND	U	0.5
		Chloroform	100	80	2.2	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloromethane	NS	NS	190	190	ND	UJ	0.5	ND	UJ	0.5	ND	U	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106085			KAFB-106085			KAFB-106091		
			Field Sample ID:				GW085-204			GW085-604			GW091-204		
			Sample Date:				10/13/2020			10/13/2020			10/9/2020		
			Sample Type:				REG			Field Duplicate			REG		
			Sample Depth (ft bgs):				447.2			447.2			454.7		
			Reference Elevation Interval (ft AMSL):				4857			4857			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	UJ	4	ND	UJ	4	ND	U	4
		Isopropylbenzene	NS	NS	450	450	ND	U	0.5	ND	U	0.5	ND	U	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	ND	U	2	ND	U	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Methylene chloride	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	ND	U	2	ND	U	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	NS	NS	660	660	ND	U	0.5	ND	U	0.5	ND	U	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	ND	U	1	ND	U	1	ND	U	1
		Tetrachloroethene	5	5	110	5	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	U	2	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	69	--	0.15	67	--	0.15	66	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	ND	U	0.1	ND	U	0.1	ND	U	0.1
		Magnesium	NS	NS	NS	NS	10	--	0.075	9.6	--	0.075	9	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	ND	U	0.0052	ND	U	0.0052	ND	U	0.0052
		Potassium	NS	NS	NS	NS	3.1	--	0.38	3	--	0.38	2.6	--	0.38
		Sodium	NS	NS	NS	NS	29	--	0.5	29	--	0.5	26	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	0.00068	J	0.0016	ND	U	0.0016	ND	U	0.0016
		Lead	0.015	0.015	0.015	0.015	ND	U	0.00025	0.00012	J	0.00025	ND	U	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	U	2	1.3	J	2	ND	U	2
		Chloride	250	NS	NS	250	81	--	15	79	--	15	67	--	15
		Sulfate	600	NS	NS	600	65	--	4.5	63	--	4.5	77	--	45
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	1.3	--	0.09	1.3	--	0.09	1.8	J	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	100	--	6	98	--	6	92	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	100	--	6	98	--	6	92	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106091			KAFB-106096			KAFB-106096		
			Field Sample ID:				GW091-604			GW096-204			GW096-604		
			Sample Date:				10/9/2020			10/7/2020			10/7/2020		
			Sample Type:				Field Duplicate			REG			Field Duplicate		
			Sample Depth (ft bgs):				454.7			578.3			578.3		
			Reference Elevation Interval (ft AMSL):				4857			4814			4814		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.019	ND	U	0.019	ND	U	0.019
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	U	1	ND	U	1	ND	U	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	ND	U	1	ND	U	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	ND	U	1	ND	U	1
		Acetone	NS	NS	14,000	14,000	ND	U	2	ND	U	2	ND	U	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	U	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	U	1	ND	U	1
		Benzene	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	U	2	ND	U	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5
		Chloroform	100	80	2.2	80	ND	--	0.5	ND	U	0.5	ND	U	0.5
		Chloromethane	NS	NS	190	190	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106091			KAFB-106096			KAFB-106096		
			Field Sample ID:				GW091-604			GW096-204			GW096-604		
			Sample Date:				10/9/2020			10/7/2020			10/7/2020		
			Sample Type:				Field Duplicate			REG			Field Duplicate		
			Sample Depth (ft bgs):				454.7			578.3			578.3		
			Reference Elevation Interval (ft AMSL):				4857			4814			4814		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	UJ	4	ND	UJ	4	ND	UJ	4
		Isopropylbenzene	NS	NS	450	450	ND	U	0.5	ND	U	0.5	ND	U	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	ND	U	2	ND	U	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Methylene chloride	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	ND	U	2	ND	U	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	NS	NS	660	660	ND	U	0.5	ND	U	0.5	ND	U	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	ND	U	1	ND	U	1	ND	U	1
		Tetrachloroethene	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	0.8	J	0.5	0.83	J	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	U	2	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	UJ	0.5	ND	UJ	0.5	ND	UJ	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	67	--	0.15	31	--	0.15	30	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	ND	U	0.1	ND	U	0.1	ND	U	0.1
		Magnesium	NS	NS	NS	NS	9.1	--	0.075	4.5	--	0.075	4.4	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	ND	U	0.0052	ND	U	0.0052	ND	U	0.0052
		Potassium	NS	NS	NS	NS	3.5	--	0.38	2	--	0.38	2	--	0.38
		Sodium	NS	NS	NS	NS	27	--	0.5	21	--	0.5	20	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	ND	U	0.0016	0.0015	J	0.0016	0.0013	J	0.0016
		Lead	0.015	0.015	0.015	0.015	ND	U	0.00025	0.00021	J	0.00025	0.00021	J	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	UJ	20	ND	U	2	ND	U	2
		Chloride	250	NS	NS	250	61	--	15	7.7	--	1.5	7.8	--	1.5
		Sulfate	600	NS	NS	600	78	--	45	27	--	4.5	26	--	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	1.8	--	0.09	ND	U	0.09	ND	U	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	89	--	6	100	--	6	100	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	89	--	6	100	--	6	100	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106106			KAFB-106106			KAFB-106151-484		
			Field Sample ID:				GW106-204			GW106-604			GW151-484-204		
			Sample Date:				10/8/2020			10/8/2020			10/21/2020		
			Sample Type:				REG			Field Duplicate			REG		
			Sample Depth (ft bgs):				454.3			454.3			472.19		
			Reference Elevation Interval (ft AMSL):				4857			4857			4857		
			NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	0.027	J	0.019	0.03	--	0.019	0.03	--	0.019
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	U	1	ND	U	1	ND	UJ	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	ND	U	1	ND	U	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	0.24	J	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	ND	U	1	ND	U	1
		Acetone	NS	NS	14,000	14,000	ND	U	2	ND	U	2	3.2	J	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	U	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	U	1	ND	U	1
		Benzene	5	5	4.6	5	ND	U	0.5	ND	U	0.5	0.38	J	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	U	2	ND	U	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroform	100	80	2.2	80	ND	U	0.5	ND	U	0.5	0.44	J	0.5
		Chloromethane	NS	NS	190	190	ND	U	0.5	ND	U	0.5	ND	U	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

Well Location ID:						KAFB-106106			KAFB-106106			KAFB-106151-484			
Field Sample ID:						GW106-204			GW106-604			GW151-484-204			
Sample Date:						10/8/2020			10/8/2020			10/21/2020			
Sample Type:						REG			Field Duplicate			REG			
Sample Depth (ft bgs):						454.3			454.3			472.19			
Reference Elevation Interval (ft AMSL):						4857			4857			4857			
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	U	4	ND	U	4	ND	U	4
		Isopropylbenzene	NS	NS	450	450	ND	U	0.5	ND	U	0.5	ND	U	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	ND	U	2	ND	U	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Methylene chloride	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	ND	U	2	ND	U	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	NS	NS	660	660	ND	U	0.5	ND	U	0.5	ND	U	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	ND	U	1	ND	U	1	ND	U	1
		Tetrachloroethene	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	U	2	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	49	--	0.15	51	--	0.15	160	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	ND	U	0.1	ND	U	0.1	ND	U	0.1
		Magnesium	NS	NS	NS	NS	6.8	--	0.075	7.1	--	0.075	25	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	ND	U	0.0052	ND	U	0.0052	ND	U	0.0052
		Potassium	NS	NS	NS	NS	2.9	--	0.38	3.1	--	0.38	4.1	--	0.38
		Sodium	NS	NS	NS	NS	25	--	0.5	26	--	0.5	40	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	ND	U	0.0016	0.00079	J	0.0016	ND	U	0.0016
		Lead	0.015	0.015	0.015	0.015	ND	U	0.00025	ND	U	0.00025	ND	U	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	U	20	ND	U	2	ND	U	2
		Chloride	250	NS	NS	250	37	--	15	34	--	15	78	--	15
		Sulfate	600	NS	NS	600	50	--	4.5	51	--	4.5	330	--	45
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	0.83	--	0.09	0.85	--	0.09	0.36	--	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	99	--	6	96	--	6	220	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	99	--	6	96	--	6	220	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

		Well Location ID:					KAFB-106151-484			KAFB-106208			KAFB-106208		
		Field Sample ID:					GW151-484-604			GW208-204			GW208-604		
		Sample Date:					10/21/2020			10/6/2020			10/6/2020		
		Sample Type:					Field Duplicate			REG			Field Duplicate		
		Sample Depth (ft bgs):					472.19			503.7			503.7		
		Reference Elevation Interval (ft AMSL):					4857			4838			4838		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	0.03	--	0.019	ND	U	0.019	ND	U	0.019
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	U	1	ND	U	1	ND	U	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	ND	U	1	ND	U	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	0.99	J	0.5	ND	U	0.5	ND	U	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	ND	U	1	ND	U	1
		Acetone	NS	NS	14,000	14,000	4.3	J	2	ND	UJ	2	ND	UJ	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	U	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	U	1	ND	U	1
		Benzene	5	5	4.6	5	0.27	J	0.5	ND	U	0.5	ND	U	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	U	2	ND	U	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Chloroform	100	80	2.2	80	0.42	J	0.5	ND	U	0.5	ND	U	0.5
		Chloromethane	NS	NS	190	190	ND	U	0.5	ND	U	0.5	ND	U	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

			Well Location ID:				KAFB-106151-484			KAFB-106208			KAFB-106208		
			Field Sample ID:				GW151-484-604			GW208-204			GW208-604		
			Sample Date:				10/21/2020			10/6/2020			10/6/2020		
			Sample Type:				Field Duplicate			REG			Field Duplicate		
			Sample Depth (ft bgs):				472.19			503.7			503.7		
			Reference Elevation Interval (ft AMSL):				4857			4838			4838		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	UJ	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	U	4	ND	U	4	ND	U	4
		Isopropylbenzene	NS	NS	450	450	ND	U	0.5	ND	U	0.5	ND	U	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	ND	U	2	ND	U	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Methylene chloride	5	5	110	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	ND	U	2	ND	U	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	NS	NS	660	660	ND	U	0.5	ND	U	0.5	ND	U	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	ND	U	1	ND	U	1	ND	U	1
		Tetrachloroethene	5	5	110	5	ND	U	0.5	ND	UJ	0.5	ND	UJ	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	UJ	2	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	160	--	0.15	49	--	0.15	50	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	ND	U	0.1	ND	U	0.1	ND	U	0.1
		Magnesium	NS	NS	NS	NS	25	--	0.075	6.7	--	0.075	6.9	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	0.19	--	0.0052	ND	U	0.0052	ND	U	0.0052
		Potassium	NS	NS	NS	NS	4.1	--	0.38	2.7	--	0.38	2.8	--	0.38
		Sodium	NS	NS	NS	NS	40	--	0.5	26	--	0.5	27	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	ND	U	0.0016	0.0008	J	0.0016	ND	U	0.0016
		Lead	0.015	0.015	0.015	0.015	ND	U	0.00025	ND	U	0.00025	ND	U	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	U	2	1.5	J	2	1.3	J	2
		Chloride	250	NS	NS	250	79	--	15	44	--	15	45	--	15
		Sulfate	600	NS	NS	600	310	--	45	49	--	4.5	50	--	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	0.4	--	0.09	0.96	--	0.09	0.94	--	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	200	--	6	97	--	6	97	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	200	--	6	97	--	6	97	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

		Well Location ID:					KAFB-106225			KAFB-106225		
		Field Sample ID:					GW225-204			GW225-604		
		Sample Date:					10/7/2020			10/7/2020		
		Sample Type:					REG			Field Duplicate		
		Sample Depth (ft bgs):					453.3			453.3		
		Reference Elevation Interval (ft AMSL):					4857			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	0.017	J	0.019	0.021	J	0.02
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	0.5	ND	U	0.5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	0.5	ND	U	0.5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	0.5	ND	U	0.5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethane	25	NS	28	25	ND	U	0.5	ND	U	0.5
		1,1-Dichloroethene	7	7	280	7	ND	U	0.5	ND	U	0.5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	1	ND	U	1
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	0.5	ND	U	0.5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	1	ND	U	1
		1,2,4-Trimethylbenzene	NS	NS	56	56	ND	U	2	ND	U	2
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	1	ND	U	1
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	ND	U	0.5	ND	U	0.5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	0.5	ND	U	0.5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	0.5	ND	U	0.5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	0.5	ND	U	0.5
		1,3,5-Trimethylbenzene	NS	NS	60	60	ND	U	1	ND	U	1
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	0.5	ND	U	0.5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	0.5	ND	U	0.5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5
		2-Butanone	NS	NS	5,600	5,600	ND	U	1	ND	U	1
		2-Chlorotoluene	NS	NS	240	240	ND	U	0.5	ND	U	0.5
		2-Hexanone	NS	NS	38	38	ND	U	1	ND	U	1
		4-Chlorotoluene	NS	NS	250	250	ND	U	0.5	ND	U	0.5
		4-Isopropyltoluene	NS	NS	NS	NS	ND	U	0.5	ND	U	0.5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	1	ND	U	1
		Acetone	NS	NS	14,000	14,000	ND	U	2	ND	U	2
		Acrolein	NS	NS	0.042	0.042	ND	U	5	ND	U	5
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	1	ND	U	1
		Benzene	5	5	4.6	5	ND	U	0.5	ND	U	0.5
		Bromobenzene	NS	NS	62	62	ND	U	0.5	ND	U	0.5
		Bromochloromethane	NS	NS	83	83	ND	U	0.5	ND	U	0.5
		Bromodichloromethane	NS	80	1.3	80	ND	U	0.5	ND	U	0.5
		Bromoform	NS	80	33	80	ND	U	2	ND	U	2
		Bromomethane	NS	NS	7.5	7.5	ND	U	0.5	ND	U	0.5
		Carbon disulfide	NS	NS	810	810	ND	U	0.5	ND	U	0.5
		Carbon tetrachloride	5	5	4.6	5	ND	U	0.5	ND	U	0.5
		Chlorobenzene	NS	100	78	100	ND	U	0.5	ND	U	0.5
		Chloroethane	NS	NS	21,000	21,000	ND	UJ	0.5	ND	UJ	0.5
		Chloroform	100	80	2.2	80	ND	U	0.5	ND	U	0.5
		Chloromethane	NS	NS	190	190	ND	UJ	0.5	ND	UJ	0.5

Table 5
Field Duplicate Sample Results, Q4 2020

		Well Location ID:				KAFB-106225			KAFB-106225			
		Field Sample ID:				GW225-204			GW225-604			
		Sample Date:				10/7/2020			10/7/2020			
		Sample Type:				REG			Field Duplicate			
		Sample Depth (ft bgs):				453.3			453.3			
		Reference Elevation Interval (ft AMSL):				4857			4857			
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	0.5	ND	U	0.5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5
		Dibromochloromethane	NS	80	8.7	80	ND	U	0.5	ND	U	0.5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	0.5	ND	U	0.5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	700	15	700	ND	U	0.8	ND	U	0.8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	UJ	4	ND	UJ	4
		Isopropylbenzene	NS	NS	450	450	ND	U	0.5	ND	U	0.5
		m- & p-Xylenes	NS	NS	NS	NS	ND	U	2	ND	U	2
		Methyl tert-butyl ether	100	NS	140	100	ND	U	0.5	ND	U	0.5
		Methylene chloride	5	5	110	5	ND	U	0.5	ND	U	0.5
		Naphthalene	30	NS	1.2	30	ND	U	2	ND	U	2
		n-Butylbenzene	NS	NS	1,000	1,000	ND	U	0.5	ND	U	0.5
		n-Propylbenzene	NS	NS	660	660	ND	U	0.5	ND	U	0.5
		o-Xylene	NS	NS	190	190	ND	U	0.8	ND	U	0.8
		sec-Butylbenzene	NS	NS	2,000	2,000	ND	U	0.5	ND	U	0.5
		Styrene	100	100	1,200	100	ND	U	0.5	ND	U	0.5
		tert-Butylbenzene	NS	NS	690	690	ND	U	1	ND	U	1
		Tetrachloroethene	5	5	110	5	ND	U	0.5	ND	U	0.5
		Toluene	1,000	1,000	1,100	1,000	ND	U	0.5	ND	U	0.5
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	0.5	ND	U	0.5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	0.5	ND	U	0.5
		Trichloroethene	5	5	4.9	5	ND	U	0.5	ND	U	0.5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	0.5	ND	U	0.5
		Vinyl acetate	NS	NS	410	410	ND	U	2	ND	U	2
		Vinyl chloride	2	2	0.19	2	ND	UJ	0.5	ND	UJ	0.5
		Xylenes, total	620	10,000	190	620	ND	U	2	ND	U	2
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	56	J	0.15	62	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	ND	U	0.1	ND	U	0.1
		Magnesium	NS	NS	NS	NS	7.8	J	0.075	8.7	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	ND	U	0.0052	ND	U	0.0052
		Potassium	NS	NS	NS	NS	2.7	--	0.38	3.1	--	0.38
		Sodium	NS	NS	NS	NS	26	J	0.5	28	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	ND	U	0.0016	ND	U	0.0016
		Lead	0.015	0.015	0.015	0.015	ND	U	0.00025	0.000089	J	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	U	2	ND	U	2
		Chloride	250	NS	NS	250	44	--	15	40	--	15
		Sulfate	600	NS	NS	600	79	--	45	80	--	45
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	1.3	--	0.09	1.2	--	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	100	--	6	100	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	100	--	6	100	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

		Well Location ID:					KAFB-106S5-446			KAFB-106S5-446		
		Field Sample ID:					GWS5-446-204			GWS5-446-604		
		Sample Date:					10/22/2020			10/22/2020		
		Sample Type:					REG			Field Duplicate		
		Sample Depth (ft bgs):					470.1			470.1		
		Reference Elevation Interval (ft AMSL):					4857			4857		
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method SW8011 (µg/L)	1,2-Dibromoethane	0.05	0.05	0.075	0.05	8.9	--	0.97	8.4	--	0.96
BTEX	Method SW8260C (µg/L)	1,1,1,2-Tetrachloroethane	NS	NS	5.7	5.7	ND	U	5	ND	U	5
		1,1,1-Trichloroethane	200	200	8,000	200	ND	U	5	ND	U	5
		1,1,2,2-Tetrachloroethane	10	NS	0.76	10	ND	U	5	ND	U	5
		1,1,2-Trichloroethane	5	5	2.8	5	ND	U	5	ND	U	5
		1,1-Dichloroethane	25	NS	28	25	ND	U	5	ND	U	5
		1,1-Dichloroethene	7	7	280	7	ND	U	5	ND	U	5
		1,1-Dichloropropene	NS	NS	NS	NS	ND	U	5	ND	U	5
		1,2,3-Trichlorobenzene	NS	NS	7	7	ND	U	10	ND	U	10
		1,2,3-Trichloropropane	NS	NS	0.0075	0.0075	ND	U	5	ND	U	5
		1,2,4-Trichlorobenzene	70	70	12	70	ND	U	10	ND	U	10
		1,2,4-Trimethylbenzene	NS	NS	56	56	180	--	20	180	--	20
		1,2-Dibromo-3-chloropropane	NS	0.2	0.0033	0.2	ND	U	10	ND	U	10
		1,2-Dibromoethane	0.05	0.05	0.075	0.05	8.8	J	5	8.5	J	5
		1,2-Dichlorobenzene	600	600	300	600	ND	U	5	ND	U	5
		1,2-Dichloroethane	5	5	1.7	5	ND	U	5	ND	U	5
		1,2-Dichloropropane	5	5	8.5	5	ND	U	5	ND	U	5
		1,3,5-Trimethylbenzene	NS	NS	60	60	82	--	10	82	--	10
		1,3-Dichlorobenzene	NS	NS	NS	NS	ND	U	5	ND	U	5
		1,3-Dichloropropane	NS	NS	370	370	ND	U	5	ND	U	5
		1,4-Dichlorobenzene	75	75	4.8	75	ND	U	5	ND	U	5
		2,2-Dichloropropane	NS	NS	NS	NS	ND	U	5	ND	U	5
		2-Butanone	NS	NS	5,600	5,600	ND	UJ	10	ND	UJ	10
		2-Chlorotoluene	NS	NS	240	240	ND	U	5	ND	U	5
		2-Hexanone	NS	NS	38	38	ND	U	10	ND	U	10
		4-Chlorotoluene	NS	NS	250	250	ND	U	5	ND	U	5
		4-Isopropyltoluene	NS	NS	NS	NS	15	J	5	15	J	5
		4-Methyl-2-pentanone	NS	NS	6,300	6,300	ND	U	10	ND	U	10
		Acetone	NS	NS	14,000	14,000	17	J	20	19	J	20
		Acrolein	NS	NS	0.042	0.042	ND	U	50	ND	U	50
		Acrylonitrile	NS	NS	0.52	0.52	ND	U	10	ND	U	10
		Benzene	5	5	4.6	5	1,300	--	5	1,300	--	5
		Bromobenzene	NS	NS	62	62	ND	U	5	ND	U	5
		Bromochloromethane	NS	NS	83	83	ND	U	5	ND	U	5
		Bromodichloromethane	NS	80	1.3	80	ND	U	5	ND	U	5
		Bromoform	NS	80	33	80	ND	U	20	ND	U	20
		Bromomethane	NS	NS	7.5	7.5	ND	U	5	ND	U	5
		Carbon disulfide	NS	NS	810	810	ND	U	5	ND	U	5
		Carbon tetrachloride	5	5	4.6	5	ND	U	5	ND	U	5
		Chlorobenzene	NS	100	78	100	ND	U	5	ND	U	5
		Chloroethane	NS	NS	21,000	21,000	ND	U	5	ND	U	5
		Chloroform	100	80	2.2	80	ND	U	5	ND	U	5
		Chloromethane	NS	NS	190	190	ND	U	5	ND	U	5

Table 5
Field Duplicate Sample Results, Q4 2020

		Well Location ID:				KAFB-106S5-446			KAFB-106S5-446			
		Field Sample ID:				GWS5-446-204			GWS5-446-604			
		Sample Date:				10/22/2020			10/22/2020			
		Sample Type:				REG			Field Duplicate			
		Sample Depth (ft bgs):				470.1			470.1			
		Reference Elevation Interval (ft AMSL):				4857			4857			
Parameter	Analytical Method	Analyte	NMAC NMWQCC ^a	EPA MCL ^b	EPA RSL ^c	Project Screening Level ^d	Result	Val Qual	LOD	Result	Val Qual	LOD
BTEX	Method SW8260C (µg/L)	Cis-1,2-Dichloroethene	70	70	36	70	ND	U	5	ND	U	5
		Cis-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	5	ND	U	5
		Dibromochloromethane	NS	80	8.7	80	ND	U	5	ND	U	5
		Dibromomethane	NS	NS	8.3	8.3	ND	U	5	ND	U	5
		Dichlorodifluoromethane	NS	NS	200	200	ND	U	5	ND	U	5
		Ethylbenzene	700	700	15	700	1,200	--	8	1,200	--	8
		Hexachloro-1,3-butadiene	NS	NS	1.4	1.4	ND	U	40	ND	U	40
		Isopropylbenzene	NS	NS	450	450	79	--	5	80	--	5
		m- & p-Xylenes	NS	NS	NS	NS	1,800	--	20	1,900	--	20
		Methyl tert-butyl ether	100	NS	140	100	ND	U	5	ND	U	5
		Methylene chloride	5	5	110	5	ND	U	5	ND	U	5
		Naphthalene	30	NS	1.2	30	110	--	20	110	--	20
		n-Butylbenzene	NS	NS	1,000	1,000	5.8	J	5	5.8	J	5
		n-Propylbenzene	NS	NS	660	660	81	--	5	83	--	5
		o-Xylene	NS	NS	190	190	870	--	8	870	--	8
		sec-Butylbenzene	NS	NS	2,000	2,000	13	J	5	13	J	5
		Styrene	100	100	1,200	100	ND	U	5	ND	U	5
		tert-Butylbenzene	NS	NS	690	690	ND	U	10	ND	U	10
		Tetrachloroethene	5	5	110	5	ND	U	5	ND	U	5
		Toluene	1,000	1,000	1,100	1,000	7,000	--	50	6,900	--	50
		Trans-1,2-Dichloroethene	100	100	68	100	ND	U	5	ND	U	5
		Trans-1,3-dichloropropene	NS	NS	4.7	4.7	ND	U	5	ND	U	5
		Trichloroethene	5	5	4.9	5	ND	U	5	ND	U	5
		Trichlorofluoromethane	NS	NS	5,200	5,200	ND	U	5	ND	U	5
		Vinyl acetate	NS	NS	410	410	ND	U	20	ND	U	20
		Vinyl chloride	2	2	0.19	2	ND	U	5	ND	U	5
		Xylenes, total	620	10,000	190	620	2,700	--	20	2,800	--	20
Metals	Method SW6010C (mg/L)	Calcium	NS	NS	NS	NS	65	--	0.15	65	--	0.15
		Iron, dissolved	1.0	NS	14	1.0	0.88	--	0.1	0.82	--	0.1
		Magnesium	NS	NS	NS	NS	11	--	0.075	11	--	0.075
		Manganese, dissolved	0.2	NS	0.43	0.2	2	--	0.0052	2	--	0.0052
		Potassium	NS	NS	NS	NS	2.9	--	0.38	2.7	--	0.38
		Sodium	NS	NS	NS	NS	28	--	0.5	27	--	0.5
	Method SW6020A (mg/L)	Arsenic	0.01	0.01	0.00052	0.01	0.0025	--	0.0016	0.0024	--	0.0016
		Lead	0.015	0.015	0.015	0.015	0.00075	--	0.00025	0.0005	--	0.00025
Anions	Method E300.0 (mg/L)	Bromide	NS	NS	NS	NS	ND	U	2	ND	U	2
		Chloride	250	NS	NS	250	23	--	1.5	23	--	1.5
		Sulfate	600	NS	NS	600	ND	U	4.5	ND	U	4.5
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	10 ^e	NS	10 ^e	ND	U	0.09	ND	U	0.09
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	NS	NS	NS	240	--	6	240	--	6
		Alkalinity, carbonate (as CaCO3)	NS	NS	NS	NS	ND	U	6	ND	U	6
		Alkalinity, total (as CaCO3)	NS	NS	NS	NS	240	--	6	240	--	6

Table 5
Field Duplicate Sample Results, Q4 2020

^a NMWQCC numeric standards per the NMAC Title 20.6.2.3101A, Standards for Ground Water of 10,000 mg/L Total Dissolved Solids Concentration or Less (NMAC 2018). For metals, the NMWQCC numeric standard applies to dissolved metals.

^b EPA National Primary Drinking Water Regulations, MCLs and Secondary MCLs, Title 40CFR Part 141, 143 (May 2018).

^c EPA Region 6 RSL for Tapwater (November 2020) for hazard index = 1.0 for noncarcinogens and a 10-5 cancer risk level for carcinogens.

^d The project screening level was selected to satisfy the requirements of the Kirtland AFB Hazardous Waste Permit Number NM9570024423 as the lowest of (1) NMWQCC numeric standard or (2) EPA MCL. If no NMQWCC standard or MCL exists for any analyte, then the project screening level will be the EPA RSL.

^e Based on the geochemical equilibrium of the site groundwater and previous site data analyses, nitrate/nitrite results represent nitrate concentrations.

µg/L = microgram per liter

AFB = Air Force Base

AMSL = above mean sea level

BFF = Bulk Fuels Facility

bgs = below-ground surface

CaCO₃ = calcium carbonate

CFR = Code of Federal Regulations

EDB = ethylene dibromide (1,2-dibromoethane)

EPA = U.S. Environmental Protection Agency

ft = foot/feet

ID = identification

KAFB = Kirtland Air Force Base

LOD = limit of detection

MCL = maximum contaminant level

mg/L = milligram per liter

ND = not detected

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

NS = not specified

REG = normal field sample

RSL = regional screening level

SWMU = Solid Waste Management Unit

Val Qual = validation qualifier

VOC = volatile organic compound

Shading = detected concentrations above the detection limit

Bold/Shading = reported concentrations exceed the project screening level

Val Quals based on independent data validation

J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.

U = Qualifier denotes the analyte was analyzed but not detected above the detection limit. The value associated with the U-qualifier is the LOD.

-- = Validation qualifier not assigned.

— = Compound not analyzed for.

Table 6
Qualified Sample Results Above Project Screening Levels, Q4 2020

Well Location ID	Field Sample ID	Sample Date	Sample Type	Analytical Method	Analyte	Result	LOD	Unit	Val Qual	Validation Reason Code	Project Screening Level ^a
KAFB-106037	GW037-204	10/9/2020	N	SW8011	1,2-Dibromoethane	0.059	0.019	µg/L	J	FD	0.05
KAFB-106037	GW037-604	10/9/2020	FD	SW8011	1,2-Dibromoethane	0.09	0.020	µg/L	J	FD	0.05
KAFB-106022	GW022-204	10/9/2020	N	SW8260C	1,2-Dichloroethane	1.5	0.50	µg/L	J	Headspace	0.05
KAFB-106S2-451	GWS2-451-204	10/22/2020	N	SW8260C	2-Hexanone	710	5.0	µg/L	J	CCV	38
KAFB-106S8-451	GWS8-451-204	10/21/2020	N	SW8260C	2-Hexanone	490	5.0	µg/L	J	MS/MSD Recovery & RPD	38
KAFB-106S8-451	GWS8-451-204	10/21/2020	N	SW6010C	Iron	6	0.1	mg/L	J	LR RPD	1

^a The project screening level was selected to satisfy the requirements of the Kirtland AFB Hazardous Waste Permit No. NM9570024423 as the lowest of (1) NMWQCC standard or (2) EPA MCL.

If no MCL or NMWQCC standard exists for any analyte, then the project screening level will be the EPA Tapwater RSL. Project screening levels below the LOD are highlighted and the screening level is set at the LOQ.

µg/L = microgram per liter

CCV = continuing calibration verification

FD = field duplicate relative percent difference

ID = Identification

LOD = limit of detection

LR RPD = lab replicate relative percent difference

mg/L = milligram per liter

MS/MSD = matrix spike/matrix spike duplicate

N = Field sample

SURR = surrogate recovery

Qualifiers:

Val Quals based on independent data validation

J = Denotes the analyte was positively identified, but the associated numerical value is estimated.

Table 7
Technical Data Completeness - Groundwater, Q4 2020

Analytical Parameter	Field/Field Duplicate Sample Analytes	Quality Control Sample Analytes (TB, FB, EB, SWB)	Qualified Analytes	Percent Technical Completeness^a
VOCs (SW8260C)	12,212	5,313	1,162	100
Ethylene dibromide (SW8011)	178	77	5	100
Total metals (SW6010C) ^b	708	36	0	100
Dissolved metals (SW6010C) ^c	354	0	4	100
Total metals (SW6020A) ^d	354	12	6	100
Anions (E300.0) ^e	531	0	31	100
Nitrate/nitrite nitrogen (E353.2)	177	0	4	100
Alkalinity (SM2320B)	531	0	7	100

^a Percent technical completeness including analytes qualified as estimated data. No data were rejected.

^b Total metals (SW6010C) = calcium, magnesium, potassium, sodium.

^c Dissolved metals (SW6010C) = dissolved iron, manganese.

^d Total metals (SW6020A) = arsenic, lead.

^e Anions = bromide, chloride, sulfate.

BTEX = benzene, toluene, ethylbenzene, xylenes

EB = equipment rinse blank

FB = Field blank

SWB = source water blank

TB = trip blank

APPENDIX E-6

DESCRIPTIONS FROM PREVIOUS REPORTS

LIST OF ACRONYMS AND ABBREVIATIONS

%	percent
µg/L	micrograms per liter
AFB	Air Force Base
amsl	above mean sea level
BFF	Bulk Fuels Facility
BTEX	benzene, toluene, ethylbenzene, and total xylenes
DMS	dual-membrane sampler
DO	dissolved oxygen
EDB	ethylene dibromide
GWM	groundwater monitoring
GWTS	groundwater treatment system
mg/L	milligrams per liter
PSL	project screening limit
Q1	first quarter of the year (January 1 through March 31)
Q2	second quarter of the year (April 1 through June 30)
Q4	fourth quarter of the year (September 1 through December 31)
REI	reference elevation interval
RPD	relative percent different
SE	southeast
VA	Veteran's Affairs

E-6.1 EXPLANATION OF REFERENCE ELEVATION INTERVAL DESIGNATIONS

The following text was initially provided in the Fourth Quarter (Q4) 2016 Quarterly and Annual Report (Kirtland Air Force Base [AFB], 2017a):

In previous reports, the distribution of groundwater contamination had been described in terms of shallow, intermediate, and deep intervals within the ethylene dibromide (EDB) plume. These intervals were broadly defined by permeable zones in which EDB migration had been identified, and these intervals have been used to guide the vertical design of monitoring wells. However, with the implementation of the groundwater treatment system (GWTS) interim measure north of Ridgecrest Drive, Southeast (SE), combined with the anticipated continuing water table rebound of approximately 2 feet per year for the next decade, these definitions of shallow, intermediate, and deep become problematic. Not all contamination will move upward with the rising water table; therefore, the base of the deep zone is expected to remain somewhat fixed. In addition, as the water table rises, the plume is expected to increase in thickness over time and impact a shallower layer of the aquifer that is not present today. For these reasons, the continued use of shallow, intermediate, and deep nomenclature will be inadequate to accurately describe changing vertical plume concentrations and changes in the plume related to the GWTS operation.

To assess performance of the GWTS, particularly regarding plume capture and plume collapse, several methods of analysis that compare variations in groundwater flow paths and contaminant concentration trends will be employed both horizontally and vertically. Horizontally, visualizing how concentrations vary in map view, from upgradient to downgradient, around Bullhead Park and the Veteran's Affairs (VA) Medical Center, has not changed as these features are fixed. However, in the vertical dimension, shallow, intermediate, and deep are changing with time and are not fixed. Therefore, to fix these layers to accommodate consistent performance analysis in the vertical dimension, and to provide for future addition of new layers (i.e., a shallower zone) as the water table rises, the concept of reference elevation interval (REI) is introduced in this Report. In concept, what were once the deep, intermediate, or shallow zones will now be represented as layers in cake (e.g., with a bottom elevation and a top elevation). Because of the nature of the permeable zones, the bottom and top undulate somewhat rather than being perfectly flat; however, the plume can still be visualized in terms of these layers. As the water table rises, layers can be added to the top. Because these fixed layers are defined, vertical water levels and vertical contaminant concentrations can be compared over time and always to the same references. This will allow meaningful analysis of trends that demonstrate plume capture and collapse with consistent reference points. The three REIs are 4857, 4838, and 4814, corresponding to the historically identified shallow, intermediate, and deep zones, respectively. Table 3-4 includes the REI assignments for the groundwater monitoring (GWM) network.

The association of the former groundwater zones and REIs relative to the depth of well screen intervals within the GWM network is summarized below:

- **REI 4857** is currently the uppermost interval so named because the GWM wells comprising this dataset are screened across the elevation of 4,857 feet above mean sea level (amsl). Data collected or measured from these GWM wells are representative of the hydrogeologic conditions of this zone that is bounded on top by the water table surface and bounded on the bottom by a surface that intercepts the bottom of the REI 4857 well screens. The screen elevations for the GWM wells within this dataset range from 4,879 feet amsl down to 4,827 feet amsl, and include all wells formerly categorized as shallow, and two new GWM wells completed in December 2016 (KAFB-106235-463 and KAFB-106236-461). These two new wells were not sampled in Q4 2016. A total of 62 wells comprise this dataset, eight of which are included in both the REI 4857

and REI 4838 datasets: KAFB-106001, KAFB-106015, KAFB-106017, KAFB-106018, KAFB-106019, KAFB-106021, KAFB-106022, and KAFB-106025. The reason for this double assignment is due to well screen construction lengths (25-30 feet) and, thus, overlapping screen intervals in REI 4838 by more than 5 feet. This means that samples collected from these eight wells are representative of REI 4857, and are also representative of at least a third of REI 4838. Of note, a majority of the REI 4857 wells were designed to be water table wells with partially submerged screens, having relatively long screen lengths ranging from 20 to 30 feet. However, due to rising groundwater elevations, only 14 GWM wells included in REI 4857 remained with partially submerged screens as of Q4 2016.

- **REI 4838** directly underlies REI 4857 and is so named because all but one of the screens of the GWM wells comprising this dataset are screened across the elevation of 4,838 feet amsl. Data collected or measured from these GWM wells are representative of the hydrogeologic conditions of this zone that is bounded on top by the bottom surface of REI 4857 and bounded on the bottom by a surface that intercepts the mid-point between the REI 4838 screens and the underlying REI 4814 screens. The screen elevations for the GWM wells within this dataset range from 4,848 feet amsl down to 4,800 feet amsl, and includes all but two of the wells previously categorized as intermediate; the exceptions are GWM wells KAFB-106230 and KAFB-106232, which are now included in the REI 4814 dataset due to the depth of their screens. Eight wells are included in both in REI 4857 and REI 4838 datasets, as discussed above. The REI 4838 GWM well dataset contains one anomalous well assignment (KAFB-106037). This well, having a screened elevation between 4,815 and 4,800 feet amsl, was previously assigned as a deep well. However, it is part of the only clustered well group having four wells (all other have either two or three). Having three REIs meant excluding one well from this system in the capture analyses. KAFB-106037 was chosen over KAFB-106036 because analysis of historical groundwater level measurements from this clustered well group showed that it was in better communication with the nearby interim measure extraction well KAFB-106228. KAFB-106037 was placed in REI 4838 because the deepest well in the clustered well group (KAFB-106212) is screened below extraction well KAFB-106228, which necessitated its inclusion in the underlying REI 4814. A total of 46 GWM wells are included in REI 4838.
- **REI 4814** directly underlies REI 4838 and currently represents the lowest elevation dataset. This dataset includes all but one well (KAFB-106037) previously designated as deep, as well as the two previously designated intermediate wells (KAFB-106230 and KAFB-106232), as described above. The screened intervals for GWM wells within this dataset cover a large vertical extent of the aquifer ranging from an elevation of 4,824 feet amsl down to an elevation of 4,720 feet amsl. Not all of the screened intervals overlap, prohibiting the assignment of a reference elevation common to all wells. There are 16 wells with screen elevations ranging from 4,824 to 4,798 feet amsl, while 20 well screens fall within the 4,781- TO 4,753 feet amsl range, and three well screens from 4,740- to 4,720 feet amsl. A reference elevation of 4,814 feet amsl was chosen as an identifier for this interval because it passes through the screens of the uppermost group of wells in the dataset allowing for the addition of a deeper REI if required in the future. Data collected or measured from these GWM wells are representative of the hydrogeologic conditions of this zone that is bounded on top by the bottom surface of REI 4838 and bounded on the bottom by a surface that intercepts the bottom of the REI 4814 well screens. There are 39 GWM wells installed in REI 4814.

E-6.2 DISCUSSION OF FIELD PARAMETERS FROM PASSIVE SAMPLING

E-6.2.2 COMPARISON OF FIELD PARAMETERS BETWEEN PASSIVE AND LOW-FLOW SAMPLING

The following text was initially provided in the Second Quarter (Q2) 2017 Quarterly Report (Kirtland AFB, 2017b):

Upon initiating the Q2 2017 passive sampling, field parameter measurements were notably skewed from historical measurements. Following the collection of field parameters from 13 GWM well locations with passive samplers, it was apparent that field parameter data collected from the passive samplers were not representative of the groundwater conditions due to the pore diameter of the passive sampling membranes, and continued collection of field parameters from passive samplers was terminated pending discussion with the New Mexico Environment Department. Therefore, field parameters were only collected from wells that utilized low-flow sampling techniques (all located south of Gibson Boulevard SE).

E-6.3 PASSIVE SAMPLER EVALUATION

The following text was initially provided in the Q4 2017 Quarterly and Annual Report (Kirtland AFB, 2018a):

A demonstration was performed in Q4 2017 to assess a proposed transition from collecting grab samples using a low-flow methodology (Bennett pump sampling systems) to a passive sampling technique (i.e., dual-membrane sampler [DMS]). This demonstration consisted of comparing low-flow sample analytical results and passive sample analytical results for EDB; benzene, toluene, ethylbenzene, and total xylenes (BTEX); and inorganic compounds from groundwater samples collected from five source area wells (Figure E-7-1). The results are reported in Table 3-14, and shown on Figure 3-23.

In addition, field parameters were compared between the low-flow purge water using a YSI Pro Plus multiparameter probe with a flow-through cell, and measurements taken *in situ* within the well using an Aqua TROLL[®] 600 multiparameter sonde deployed within the well screen depth (Table 3-15). If passive sampling is approved for source area wells, reliable field parameter measurements will not be achieved from the DMSs and, therefore, an *in situ* method may be proposed if continued field parameter collection is necessary.

The analytical results from this demonstration are summarized below. In accordance with the work plan (Kirtland AFB, 2017c), the low-flow sample data are used for reporting purposes. The sample results from the DMSs are only used for demonstration purposes, and a relative percent difference (RPD) was calculated for each analyte within each sample (Table 3-14). The approved Quality Assurance Project Plan acceptable RPD for duplicate groundwater samples is 35 percent (%) for analytical results and was, therefore, used herein to determine a comparable threshold value. The RPD acceptance threshold of 35% is relevant when comparing two samples utilizing the same sampling methodology. A comparison of results collected via two different sampling methods, one discrete (DMS) and one indiscrete (Bennett Pump), may result in widely varying RPDs. The 35% threshold has been selected to illustrate that the two methods provide results that are comparable to two samples obtained using the same sampling methodology. Analytical results and RPDs are summarized below:

- EDB was detected in all groundwater samples collected using both low-flow and passive technologies. The RPD for EDB from samples collected from KAFB-106005 was 10%. The EDB concentrations from the other four wells in the demonstration ranged from 0.85 to 5.9 micrograms per liter (µg/L), with RPDs ranging from 48 to 175%; above the acceptable 35% RPD.
- Benzene was detected in all groundwater samples (at concentrations above the project screening limit [PSL] of 5 µg/L) using both low-flow and passive technologies. The RPD for the benzene results was 0% for KAFB-106008 (both methods had a benzene concentration of 2,300 µg/L) and the RPD was relatively low for two other wells (KAFB-106005 and KAFB-106006) at 26 and 31%, respectively. The RPD for benzene from groundwater samples collected from KAFB-106014 and KAFB-106059 was 64 and 121%, respectively; above the acceptable 35% RPD.
- Toluene was detected or estimated in all groundwater samples collected using both low-flow and passive technologies. The RPD for toluene ranged from 16 to 195%, and was below the acceptable 35% RPD in two wells (KAFB-106005 and KAFB-106008).
- Ethylbenzene was detected in all groundwater samples collected using both low-flow and passive technologies. The RPD for ethylbenzene was 0% in KAFB-106006 (both methods had an ethylbenzene concentration of 3 µg/L) and the RPD was relatively low for KAFB-106005 (19%).

The ethylbenzene concentrations from the other three wells in the demonstration ranged from 45 to 470 µg/L, with RPDs ranging from 39 to 164%; above the acceptable 35% RPD.

- Total xylenes were detected all groundwater samples collected using both low-flow and passive technologies, with the exception of the DMS sample from KAFB-106006, precluding the ability to calculate an RPD from that well. The RPD for total xylenes was 17% from KAFB-106005, within the 35% RPD. The RPD was above 35% in the remaining wells (KAFB-106008, KAFB-106014, and KAFB-106059).

It should be noted that while some RPD values for EDB and benzene exceeded the 35% threshold, no significant differences in analyte concentrations were observed between either sampling method or the respective analyte PSL. Both methods yielded comparable results that were either both below or above the PSL. The only exception to this was the EDB results from well KAFB-106006. At this well, the low-flow sampling method resulted in an estimated value below the PSL (0.014 µg/L) while the passive sampling method resulted in a value above the PSL (0.21 µg/L). When comparing plume maps utilizing either the passive sampling data or the low-flow sampling data, only minimal shifts of some internal isocontours occur between the two sample types (Figure 3-23); however, the overall contoured boundary (specified as the PSL concentration) generally remained unchanged.

- Inorganic concentrations observed in the groundwater samples collected using the two methods were generally in agreement, with only a few samples that exceeded the 35% RPD, as follows:
 - Dissolved manganese in KAFB-106005 (40% RPD) and KAFB-106014 (46% RPD)
 - Nitrate/nitrite nitrogen in KAFB-106005 (156% RPD) and KAFB-106006 (40% RPD)
 - Dissolved iron in KAFB-106006 (44% RPD)
 - Chloride in KAFB-106014 (80% RPD).

The results from the field parameter demonstration are summarized below. In accordance with the work plan (Kirtland AFB, 2017c), the low-flow purge water data are used for reporting purposes as measured using the YSI Pro Plus. The field parameters from the Aqua TROLL[®] 600 multiparameter sonde are used for demonstration purposes only, and an RPD was calculated for each parameter within each well (Table 3-15). An RPD of 50% was deemed acceptable for the field parameters, and is conservative given the variability and relatively low concentrations of dissolved oxygen (DO) and turbidity. In accordance with the work plan (Kirtland AFB, 2017c), field parameters were collected until stabilization of three consecutive readings within 10% of one another was achieved, or a maximum of 1 hour. The final, stabilized field parameters measurements are used for reporting and demonstration purposes.

- Turbidity had relatively high RPDs, with the exception of KAFB-106014 at 20%; the remaining four wells had an RPD for turbidity ranging from 60 to 198%.
- Temperature was consistent between the two methods, with a maximum RPD of 12% (KAFB-106008).
- DO had relatively high RPDs in three wells (KAFB-106005, KAFB-106006, and KAFB-106008). DO had relatively low RPDs in KAFB-106014 (46%) and KAFB-106059 (28%). Although DO had relatively high RPDs in three of the demonstration wells, the results were all <1 milligrams per liter (mg/L), with the exception of the low-flow result from KAFB-106006 (2.94 mg/L).

- Specific conductivity was consistent between the two methods, with a maximum RPD of 43% (KAFB-106005).
- pH was consistent between the two methods, with a maximum RPD of 7% (KAFB-106059).
- Oxidation-reduction potential had relatively high RPDs in wells KAFB-106005 and KAFB-106059 at 55 and 54%, respectively. The other wells demonstrated relatively low RPDs for oxidation reduction potential, ranging from 5 to 29%.

These results indicate that passive sampling techniques (i.e., DMSs) generally provide results that are comparable to low-flow techniques for inorganic parameters. For volatile parameters, including EDB and BTEX, the results indicate good agreement between the two methods for relatively lower concentrations (e.g., KAFB-106005 and KAFB-106006); however, the higher concentrations of EDB and BTEX did not provide as comparable results between the two methods (e.g., KAFB-106008, KAFB-106014, and KAFB-106059). Plume delineation in the source area at the PSL for both EDB and benzene was comparable between both methods. Significant differences in concentration contours were only observed at concentrations exceeding the PSL by approximately three orders of magnitude (Figure 3-23). The only exception to the plume boundary was for the EDB PSL contour extending further south around KAFB-106006 due to the higher passive sampler concentration.

Previous demonstrations have shown generally comparable results between the two methods, with no consistent bias identified (i.e., neither method has consistently resulted in higher or lower concentrations). Furthermore, vertical profiles were evaluated in Q4 2016 and first quarter (Q1) 2017 (Kirtland AFB, 2017d) that demonstrated most source area wells that were evaluated did not have significant vertical gradients and, therefore, matching the passive sample depths to the low-flow sample depth, as was done for this demonstration, should not result in a significant sample bias. The two field parameter methods (low-flow purge water versus *in situ* measurements) resulted in agreement between the methods, with turbidity being the parameter with the greatest discrepancies. Temperature, pH, and specific conductivity all revealed consistent measurements between the two methods. Although DO resulted in RPDs greater than 50% in three wells, all results were <1 mg/L, with the exception of the low-flow result from KAFB-106006 (2.94 mg/L).

E-6.4 REGIONAL GROUNDWATER GRADIENT

The following text was initially provided in the Q2 2018 Quarterly Report (Kirtland AFB, 2018b):

The GWM well network for the Kirtland AFB Bulk Fuels Facility (BFF) jet fuel dissolved-phase contamination is screened near the top of the saturated interval of the Santa Fe Group aquifer system. Historically, this aquifer system was the sole water supply for the Albuquerque metropolitan area and the groundwater flow was from north-northeast to south-southwest toward the Rio Grande (Bexfield and Anderholm, 2000). As the population increased, water demand also increased and the Santa Fe aquifer system experienced significant stress resulting in water level declines in excess of 100 feet near Kirtland AFB (Powell and McKean, 2014). Furthermore, the groundwater flow changed direction from south-southwest (toward the Rio Grande) to an easterly and northeasterly direction, away from the Rio Grande and toward the city and its drinking water supply wells (Powell and McKean, 2014). It is important to note the predominant groundwater flow direction, which the dissolved-phase constituents migrated along, was north-northeast. To reduce the use of groundwater while maintaining municipal water supply, in 2008, the Albuquerque Bernalillo County Water Utility Authority began diverting water from the San Juan-Chama Drinking Water Project. As a result, this surface water diversion has relieved the pumping stress of the Santa Fe aquifer system and groundwater levels have been rebounding approximately 3-4 ft per year, with rates varying depending upon the proximity to pumping wellfields or historical groundwater sinks (Beman, 2013). A more detailed discussion of the conceptual site model can be found in Section 7 of the RFI Report (Kirtland AFB, 2018c).

E-6.5 DESCRIPTION OF FORMER WELL DESIGNATIONS AND ASSOCIATED SAMPLING REGIMES

The following text was initially provided in the Q4 2018 Quarterly and Annual Report (Kirtland AFB, 2019):

In previous reports, GWM wells were assigned designations based either on their location related to the groundwater gradient and their spatial relationship to the dissolved-phase EDB or simply on their location (i.e., source area, etc.). However, due to the changing regional groundwater gradient (Section 3), these designations may no longer be appropriate or meaningful. In order to present analytical data and data summaries conveniently at the project scale, all GWM wells will hereafter be designated simply as “groundwater monitoring well,” except for newly added wells (which includes any newly installed wells), and the presentation of analytical data will be centered on analytes as opposed to former well designation. The former well designations and monitoring well objective are provided in Table 3-1 along with the current sampling regime by quarter. A brief description of the former well designations and the frequency of samples collected by designation is provided below.

Newly Added Wells—Newly added wells include both existing wells that are added to the GWM network as well as newly installed wells that have not completed four quarters of baseline sampling. Newly added GWM wells require a minimum of four consecutive quarters of baseline full-suite analytical sampling before receiving a designation that determines the long-term sampling regime. These wells have been added to define the plume boundary and provide additional water table monitoring due to the rising groundwater elevation.

Source Area Wells—Primarily located in the BFF south of Randolph Road SE and proximal to the spill site on-Base. Sampled during Q2 and Q4. These wells monitor the higher concentrations of dissolved-phase contaminants on-Base.

Downgradient Proximal Wells—Located north of Ridgecrest Drive SE surrounding the historical low concentration dissolved-phase EDB to the west, north, and east into the distal portion of the GWM network. Analytical data for these wells have been historically below the maximum contaminant level for EDB. Sampled every quarter. These wells assist in plume boundary definition.

Veterans Affairs (VA) Proximal Wells—Three sets of nested wells located between the historical dissolved-phase EDB south of Ridgecrest Drive SE and the Raymond G. Murphy VA Medical Center as a means to detect any potential contaminant migration toward the VA medical campus. Sampled every quarter. These wells provide additional wellhead protection monitoring for the VA supply well.

Signal Wells—Three wells located along the south side of Ridgecrest Drive SE to monitor BTEX and provide early indication if these dissolved-phase constituents are migrating from the source area into the interim measure Target Capture Zone. Sampled during Q2 and Q4.

GWM Wells—Primarily located north of Ridgecrest Drive SE within the historical footprint of the dissolved-phase EDB. Analytical data from these wells serve to define the volume and mass of the dissolved-phase EDB throughout the GWM network. Sampled in Q2 and Q4.

E-6.6 EDB CAPTURE EVALUATION METHODOLOGIES

E-6.6.1 CAPTURE EVALUATION METHODOLOGIES FROM THE Q4 2016 QUARTERLY AND ANNUAL REPORT

The following text was initially provided in the Q4 2016 Quarterly and Annual Report (Kirtland AFB, 2017a):

E-6.6.1.1 *Horizontal Capture Analysis*

The horizontal capture analysis for the interim measure objective area north of Ridgecrest Drive SE for both Q2 and Q4 2016 is summarized in Table 5-8. An entire plume horizontal capture summary is provided in Appendix I (Table I-6-1). The capture zone analyses were conducted using groundwater head and EDB concentration data sets collected in 2016. The three synoptic groundwater head measuring events were from March 26 to 30 (Q2), from July 11 to 14 (Q3), and from October 3 to 6 (Q4 2016). EDB samples were collected from 132 wells in Q2 2016 and 138 wells in Q4 2016. Comprehensive EDB analysis was not performed during Q1 and Q3 2016 because only a subset of the GWM network is sampled in Q1 and Q3 as compared to the entire network in Q2 and Q4; therefore, the capture zone analyses were focused solely on Q2 and Q4 2016. Additionally, development water samples from the six newly installed wells (December 2016) showed EDB concentrations below the laboratory detection limit (Appendix B-1 includes analytical data). In order to have comparable EDB concentration datasets for plume iso-shell modeling, six nondetect data points were placed at the location of the six new wells within the Q2 dataset.

The first step in the horizontal capture analysis was to use ArcGIS Spatial Analyst to develop potentiometric surface maps for REIs 4857, 4838, and 4814 described previously in this report. The 4857 and 4838 REIs contain some portion of the plume iso-shell and, therefore, were used to analyze horizontal capture. The lowest REI (4814) does not incorporate any of the plume volume and, therefore, was not used for horizontal capture analysis. The natural neighbor technique was used to develop raster surfaces from assigned cell sizes of 20-feet that ensured each data point was represented by a unique raster cell during interpolation. Once the potentiometric raster surfaces were developed, spatial analyst was used to contour the head values at 0.1-foot iso-line intervals.

Each potentiometric surface included an estimated head value for active extraction wells. Using heads measured at extraction wells for constructing potentiometric surface maps can bias the interpretation of capture, since the heads at the extraction wells may be much lower than heads in the aquifer just outside the well bore. It can be equally problematic if no head value is assigned to the extraction wells. The measured drawdown in the active extraction wells ranged from 7- to 15-feet. To reduce bias, the assigned head in the extraction wells was estimated by multiple two-point regression analyses using wells adjacent to the extraction well. This resulted in an assigned head 0.1-foot lower than the lowest head in monitoring wells adjacent to extraction wells KAFB-106228 and KAFB-106233 and an assigned head 0.6-feet lower than the lowest head in monitoring wells adjacent to extraction well KAFB-106234 when active. The lower head estimate for extraction well KAFB-106234 is due to the closest adjacent monitoring wellbeing located approximately 225-feet away while the closest adjacent monitoring wells to KAFB-106228 and KAFB-106233 were located less than 35-feet away. The estimated head was assumed to be uniform with depth through both REIs.

The hydraulic divides for each extraction well in each REI were developed in two steps using ArcGIS Spatial Analyst. First, a raster of flow direction from each cell in the potentiometric surface raster to its steepest downslope neighbor was created using the Flow Direction tool. Second, a raster delineating all drainage basins within the potentiometric surface was created using the Basin tool. The basin raster was converted into polygons, which could then be used for display of the capture zone boundaries and to crop

segments of the plume volume for further analysis. Streamlines (particle tracks) showing the direction of flow along the potentiometric surface for each REI were developed using C-Tech MVS software. Each potentiometric raster surface was imported and converted into a gradient vector grid. Points assigned at the three-dimensional location of each screened interval in the dataset were assigned as seed points from which downgradient streamlines were created.

The capture analysis of the EDB plume for each interval was performed entirely in MVS using the exports from the processes described above. First, the EDB plume was cropped on top and bottom by the elevation grids that defined the aquifer extent represented by the interval dataset. Second, the remaining plume volume was segmented using the capture zone (basin) polygons for each extraction well. Lastly, the cropped and segmented plume volume was split by a line representing the location of Ridgecrest Drive SE so that plume volume and mass capture analyses could be performed for the portion of the plume within the interim measure objective area. All plume volume segments were then exported as polygon shapefiles for figure display.

Figure 5-3 shows the horizontal capture of the portion of the EDB plume within REI 4857 during Q2 2016. Plume capture is divided between the three active extraction wells (KAFB-106228, KAFB-106233, and KAFB-106234). With respect to the entire plume volume in REI 4857, the interim measure resulted in the horizontal capture of 69% of the plume volume and 29% of the plume mass. The discrepancy between plume volume and mass is due to the source area and, thus, the bulk of the EDB mass being located south of the extraction well capture zones. With respect to the objective area north of Ridgecrest Drive SE, the interim measure resulted in the horizontal capture of 99.3% of the plume volume and 99.7% of the plume mass (Table 5-8). A small portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106106 located in the northwestern portion of the plume, near Ross Avenue.

Figure 5-4 shows the horizontal capture of the portion of the EDB plume within REI 4838 during Q2 2016. With respect to the entire plume volume in REI 4838, the interim measure resulted in the horizontal capture of 42% of the plume volume and 12% of the plume mass. With respect to capture in the objective area, the interim measure resulted in the horizontal capture of 79% of the plume volume and 80% of the plume mass. A portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106089 located south of extraction well KAFB-106228. Additional capture loss is due to inadequate coverage by the dataset for this quarter as confirmed capture could not be established northwest of extraction well KAFB-106234. Inferred capture volume and mass are not included in the capture statistics (i.e., the percentages of plume capture would increase if the inferred capture was added).

Combining the two capture analyses of the entire plume volume and mass discussed above, the interim measure resulted in the horizontal capture of 59% of the plume volume and 25% of the plume mass. With respect to the objective area, the interim measure resulted in the horizontal capture of 92% of the plume volume and 93% of the plume mass in Q2 2016.

Figure 5-5 shows the horizontal capture of the portion of the EDB plume within REI 4857 during Q4 2016. Plume capture was divided between the two active extraction wells (KAFB-106228 and KAFB-106234) (NOTE: Extraction well KAFB-106233 was not operated from June 10 to December 31 due to biofouling issues). With respect to the entire plume volume, the interim measure resulted in the horizontal capture of 66% of the plume volume and 11% of the plume mass. With respect to the objective area north of Ridgecrest Drive SE, the interim measure resulted in the horizontal capture of 99% of the plume volume and 99.5% of the plume mass (Table 5-8). A small portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106235-463 located west of KAFB-106234.

Figure 5-6 shows the horizontal capture of the portion of the EDB plume within REI 4838 during Q4 2016 (NOTE: Extraction well KAFB-106233 was not operated from June 10 to December 31 due to

biofouling issues). With respect to the entire plume volume, the interim measure resulted in the horizontal capture of 84% of the plume volume and 52% of the plume mass. With respect to capture in the objective area, the interim measure resulted in the horizontal capture of 95% of the plume volume and 97% of the plume mass. A portion of the plume was lost from capture due to flow to an unidentified sink defined by KAFB-106220 located southeast of extraction well KAFB-106234. The capture analysis method suggested the existence of a closed depression defined by KAFB-106089 located north of Ridgecrest Drive SE in the north-central portion of the EDB plume, which would have reduced the capture statistics. However, an analysis of the head in KAFB-106089 and the heads in the surrounding wells, including KAFB-106037 less than 35-feet from extraction well KAFB-106228, showed no data support for this interpretation (see Section 5.3.4 for more details) as the head in KAFB-106037 was 0.1-foot lower than in KAFB-106089.

Combining the two capture analyses for the entire plume as discussed above, the interim measure resulted in the horizontal capture of 73% of the plume volume and 19% of the plume mass. With respect to the objective area, the interim measure resulted in the horizontal capture of 97% of the plume volume and 99% of the plume mass in Q4 2016.

E-6.6.2 VERTICAL CAPTURE ANALYSIS

The vertical capture analysis for the interim measure objective area north of Ridgecrest Drive SE for both Q2 and Q4 2016 is summarized in Table 5-9. An entire plume vertical capture summary is provided in Appendix I-6 (Table I-6-2). A vertical capture analysis evaluates groundwater levels between adjacent hydrologic units to determine zones of upward versus downward flow. Capture is defined by zones with upward flow that prevents dissolved contaminants from being transported by advection deeper into the aquifer. Vertical flow direction can be evaluated by subtracting the groundwater head measured in an adjacent lower hydrologic unit from the groundwater head measured in the overlying unit. A head difference of less than zero indicates that the head in the lower unit is greater than the head in the upper unit and, therefore, water will flow vertically upward.

As described in Section 5.3.2, potentiometric surface grids were developed for three vertically adjacent REIs covering the zones containing EDB concentrations above 0.05 µg/L. Vertical capture was evaluated in two hydrologic units using grid subtraction. Vertical flow directions across the upper unit, defined on top by the elevation of the water table and bounded on the bottom by an elevation plain that passes through the mid-point of all of the REI 4838 screened intervals, were defined by subtracting the REI 4838 potentiometric surface grid from the REI 4857 potentiometric surface grid. Vertical flow directions across the lower unit, defined on top by the REI 4838 mid-point elevation plain and bounded on the bottom by an elevation plain connecting the bottom of all of the REI 4814 screened intervals, were defined by subtracting the REI 4814 potentiometric surface grid from the REI 4838 potentiometric surface grid. Vertical capture zones, defined by regions in each elevation interval by head difference with negative difference values, were converted to polygons for use in plume capture analysis. Grid subtractions and conversions were performed using ArcGIS Spatial Analyst.

Vertical plume capture analysis was performed by first defining the plume volume in the upper (above REI 4838 mid-point) and lower (below REI 4838 mid-point) units. The entire plume volume delineated for both Q2 and Q4 2016 was sliced along the REI 4838 screened interval mid-point elevation plain. The portion of the plume above the slice represented the upper unit plume volume. The portion of the plume below the slice represented the lower unit plume volume.

The upper plume volume has two opportunities to be captured vertically. Initially, this plume volume can be captured by upward flow between REI 4838 and REI 4857. Portions of the plume not captured in this interval have the potential to move downward into the lower unit. Once in the lower unit, these portions can be captured by vertical upward flow between REI 4814 and REI 4838. The lower plume volume can

only be captured by vertical upward flow between REI 4814 and REI 4838. Once the unit plume volumes have been delineated, they are segmented by the capture polygons developed from the head difference grids volume and mass capture analysis.

Figures 5-7 and 5-8 show the results of the vertical capture analysis for the upper (above REI 4838 mid-point) unit plume volume in Q2 2016. Figure 5-7 shows the portion of plume captured by upward vertical flow between REI 4838 and REI 4857. With respect to the entire plume, 43% of the plume volume and 20% of the plume mass were vertically captured in this unit. With respect to the plume within the interim measure objective area north of Ridgecrest Drive SE, 49% of the plume volume and mass was vertically captured in this unit. Figure 5-8 shows the portion of the upper plume vertically captured in both the upper and lower unit. With respect to the entire plume, an additional 38% of the plume volume and an additional 18% of the plume mass were captured by vertical upward flow between REI 4814 and REI 4838. With respect to the interim measure objective area, an additional 43% of the plume volume and an additional 45% of the plume mass were vertically captured in the lower unit. Combining the two analyses, 81% of the plume volume and 38% of the plume mass in the upper unit were vertically captured in Q2 2016. With respect to the interim measure objective area, 92% of the plume volume and 93% of the plume mass in the upper unit were vertically captured for this period.

Figure 5-9 shows the result of the vertical capture analysis for the lower plume volume in Q2 2016. With respect to the entire lower unit, 40% of the plume volume and 24% of the plume mass were vertically captured by upward flow between REI 4838 and REI 4814. With respect to the interim measure objective area, 58% of the plume volume and 56% of the plume mass were vertically captured. In total, 85% of the plume volume and 87% of the plume mass in the interim measure objective area were vertically captured in Q2 2016.

Figures 5-10 and 5-11 show the results of the vertical capture analysis for the upper (above REI 4838 mid-point) unit plume volume in Q4 2016. Figure 5-10 shows the portion of plume captured by upward vertical flow between REI 4838 and REI 4857. With respect to the entire plume, 42% of the plume volume and 7% of the plume mass were vertically captured in this unit. With respect to the plume within the interim measure objective area north of Ridgecrest Drive SE, 55% of the plume volume and mass were vertically captured in this unit. Figure 5-11 shows the portion of the upper plume vertically captured in both the upper and lower unit. With respect to the entire plume, an additional 30% of the plume volume and an additional 55% of the plume mass were captured by vertical upward flow between REI 4814 and REI 4838. With respect to the interim measure objective area, an additional 20% of the plume volume and an additional 16% of the plume mass were vertically captured in the lower unit. Combining the two analyses, 73% of the plume volume and 62% of the plume mass in the upper unit were vertically captured in Q4 2016. With respect to the interim measure objective area, 75% of the plume volume and 72% of the plume mass in the upper unit were vertically captured for this period.

Figure 5-12 shows the result of the vertical capture analysis for the lower (below REI 4838 mid-point) unit plume volume in Q4 2016. With respect to the entire lower unit plume, 41% of the plume volume and 36% of the plume mass were vertically captured by upward flow between REI 4814 and REI 4838. With respect to the interim measure objective area, 49% of the plume volume and 53% of the plume mass were vertically captured. In total, 68% of the plume volume and 67% of the plume mass in the interim measure objective area were vertically captured in Q4 2016.

E-6.7 CAPTURE EVALUATION METHODOLOGIES FROM THE APPENDIX I-7 OF THE Q2 2018 QUARTERLY REPORT

The following text was initially provided in Appendix I-7 of the Q2 2018 Quarterly Report (Kirtland AFB, 2018b):

Model domain capture was analyzed using two sets of 3D particle track exports. The first set was designed to visualize the capture produced by each simulated extraction well across the model domain. The 3D location points were assigned at the top and bottom elevation of each simulated extraction well. Additional location points were assigned at 10-ft intervals along the length of each screen interval. The 10-ft interval was chosen because 10 ft is the shortest screen interval in the monitoring well network and, therefore, represents the default resolution to vertical data. FEFLOW was then instructed to produce 72 “seed” points (particle track start points) around each location point at an assigned radius of 1 m (3.3 ft). FEFLOW uses sets of 24 for radius assignments. It is assumed that water within the 1-m radius flows to the well. Backward 3D particle tracks are then run from all “seed” points and the path lines are exported as 3D lines (geographic information system and 3D points (American Standard Code for Information Interchange). The point export represents the X, Y, and Z location of all vertices along each particle track line. Capture evaluation, using this method, of the seven extraction wells within the model domain produced 6,129 particle track lines. Appendix I-7 – Figure 8 shows a 2D representation of the particle tracks produced from each extraction well.

While the above analysis allows for a visual analysis of model scale capture, it does not allow for quantifying capture produced by each extraction well specific to the dissolved EDB plume volume. Particle tracks run backwards from the wells did not completely represent flow from the water table in the plume area, resulting in large volumes of plume without particle track penetration and therefore without capture indication. As a result, the plume specific capture was analyzed using the following four-step process.

Step 1 was converting the 3D plume grid into 3D “seed” points for particle tracking in FEFLOW. All of the modeled plume cells were exported as geographic information system polygons from the 3D plume model for Q2 2018. Exporting the plume cells from C Tech’s Mining Visualization System software results in a set of polygons delineating the external faces of the plume as well as the internal makeup of the plume. Appendix I-7 – Figure 9a shows a 2D representation of the cell export. Each cell is attributed with the X, Y, and Z value for the cell centroid.

Step 2 was the production of particle tracks and extraction well mapping. The centroid data produced in Step 1 was converted into a 3D point file, which was brought into the 2018 Q2 numerical model as observation points. FEFLOW was instructed to use each of these points as “seed” points for forward run particle tracks, 2D representation of the results are shown in Appendix I-7 – Figure 9b. Each particle track was mapped to its discharge point (extraction well) and attributed, respectively.

Step 3 was the mapping of plume capture to the originally exported plume cells. The particle track lines were converted to a point file representing the start and endpoints of each line labeled with the extraction well identification. The start points matched the cell centroid locations and elevations and were used to attribute each plume cell with the extraction well to which the aquifer volume at that location flowed (Appendix I-7 – Figure 9c).

Step 4 was the delineation of extraction well capture polygons for calculation of plume capture volumetrics. Analysis of the extraction well attributed plume cells showed that the capture zones produced by each extraction well were coincident (did not cross) except for the capture boundary between KAFB-106228 and KAFB-106239. There was some overlap of the KAFB-106233 and KAFB-20 cell

areas with KAFB-106228 cell areas; however, the centroids did not overlap. Cell areas and centroids between KAFB-106228 and KAFB-106239 did overlap. KAFB-106228 captured the upper part of the plume at or near the water table, while KAFB-106239 captured the deeper portion of the plume. This is likely due to KAFB-106228 being screened across the water table and KAFB-106239 being screened completely below the water table. The capture boundaries were assigned along neighboring particle track lines for each zone except for between KAFB-106228 and KAFB-106239. Where these two capture zones overlapped, the capture boundary was assigned as the centerline of the overlap area. These capture zones were exported into Mining Visualization System 3D space and used to split the plume volume and develop estimates of plume volume and mass captured by each well. Appendix I-7 – Figure 9d shows a 2D rendering of the final 3D capture zone delineations and the plume area split into these capture zones.

E-6.8 CAPTURE EVALUATION METHODOLOGIES FROM THE APPENDIX I-6 OF THE Q4 2018 QUARTERLY AND ANNUAL REPORT

The following text was initially provided in Appendix I-6 of the Q4 2018 Quarterly and Annual Report (Kirtland AFB, 2019):

E-6.8.1 INTRODUCTION

The purpose of Step 4 of the EPA Systematic Approach for Evaluation of Capture Zones is to perform specific calculations to add additional lines of evidence characterizing the extent of capture (EPA, 2008). This performance assessment incorporates the use of a numerical groundwater flow model to simulate heads resulting from interim measure extraction. The purpose of the model is to define the three-dimensional hydraulic containment produced by interim measure extraction at the point in time when groundwater heads are measured and compare these containment zones to the Target Capture Zone developed for the same time period.

For the second quarter (Q2) 2018 performance assessment of the Kirtland Bulk Fuels Facility interim measure extraction system, EA Engineering, Science, and Technology, Inc., PBC (EA) developed and began use of a numerical flow model to simulate heads and estimate capture for the interim measure extraction wells (Kirtland AFB, 2018b). This was done to satisfy Step 4 of the U.S. Environmental Protection Agency's (EPA's) systematic evaluation of capture zones at pump and treat systems by providing a supporting line of evidence to the measured data-based capture evaluation (Step 3 [EPA, 2008]). This first version of the model incorporated a relatively simple design, assuming flow into and across the model domain could be represented by a uniform gradient and that the aquifer could be represented by the assignment of a homogeneous horizontal hydraulic conductivity (K_h). The model design would remain simple unless comparison of simulated to observed heads suggested the need to add complexity.

While Version 1 of the model met the criteria for calibration, the results showed a continuous region around interim measure extraction well KAFB-106234 where simulated heads were outside of the acceptable error range. Concerns about the assumption of a uniform gradient causing this error were raised during Hydrologic Working Group meetings. The main concern was that the uniform gradient did not adequately represent the hydrologic dynamics along the northern model boundary representing the division between interim measure well stresses and base water supply stresses as well as northern stresses produced by Albuquerque Bernalillo County Water Utility Authority water supply wells. Therefore, Version 2 of the flow model was developed for use this quarter, using a different method for assigning model boundary conditions to address both the error and stress concerns.

This appendix presents the updated method for assigning model boundary conditions and the recalibration of the flow model using this method. Unless noted as a change in the following sections, model design

and calibration follow the same methods described in Appendix I-7 of the Q2 2018 report (Kirtland AFB, 2018b). This appendix is designed to be an update to that modeling report, not a standalone report.

E-6.8.2 BOUNDARY ASSIGNMENT REVISION

The boundary assignment was revised (Version 2) in Q4 2018 to better reflect pumping stresses external to the domain boundary that could not be addressed with Version 1 of the flow model which had a uniform gradient assigned along its boundaries using constant head nodes. Figure I-6-1 shows the interpolated water levels for the fourth quarter (Q4) 2017 and Q4 2018. Instead of uniform flow directions from recharge in the western quadrants toward discharge in the eastern quadrants, the interpolated water table represents recharge from the west/northwest that shifts and splits within the model domain toward discharges to the east and northeast. Easily seen is the representation of Ridgecrest extraction along the northern boundary of the model while still honoring the water level measurements made at Trumbull 1A and the other northern-most U.S. Geological Survey and project monitoring wells.

The method for assigning boundary conditions in Version 2 of the model attempts to give representation to each of these stresses along the model boundary. The primary reason this was not attempted in Version 1 is that there is very little data available from which to delineate these stresses. Drawdowns at the Albuquerque Bernalillo County Water Utility Authority's Ridgecrest wellfield (closest wellfield to the site area) are not monitored and very few off-Base head measurements are made within a 3-mile radius of the plume area. Numerous head measurements are taken at on-Base locations south of the plume area, but they are mostly located in perched and low permeability aquifer regions and are not taken synoptic with interim measure gauging. The closest available regularly taken head measurements in the unconfined aquifer outside of the base are located at three U.S. Geological Survey monitoring wells: Jerry Cline C located approximately 1.8 miles north of the model boundary, Del Sol Divider 3 located approximately 1.8 miles northwest of the model boundary, and Montessa Park B located approximately 2.3 miles southwest of the model boundary. The two northern wells are known to be north of the Ridgecrest wellfield, therefore, necessitating a need to estimate the drawdown associated with Ridgecrest extractions.

A simple linear regression model was used to estimate the water level in the Ridgecrest wellfield produced by extraction. Assuming that the cone of depression around the wellfield is relatively circular, the heads from Del Sol Divider 3 and Trumbull 1A were used to estimate the water levels at Ridgecrest wells 3, 4, and 5. The distances of each of the extraction wells from the two monitoring wells were calculated and the water level at each well was assumed to be along the slope produced between the two monitoring wells. Table I-6-1 lists the measured head for the two monitoring wells, the calculated distance from each well to the extraction wells and the estimated water level for each extraction well. The measurements from the three regional U.S. Geological Survey monitoring wells and from the three estimated Ridgecrest extraction wells were used in conjunction with the project area head measurements to grid the water table within and outside of the model domain. Interpolated water levels along the model boundary were assigned as constant head nodes in the model design, controlling the water level and flux along the boundary and representing external hydrologic conditions in the aquifer for the given measurement quarter.

E-6.8.3 MODEL RECALIBRATION

The change in the method used to estimate the boundary conditions of the model domain necessitated a recalibration of the numerical flow model. As with Version 1 of the model representing Q4 2017 conditions under a uniform gradient (Kirtland AFB, 2018b), calibration of this version of the model was performed by changing the assigned horizontal Kh and the vertical anisotropy (VANI). The assumptions of homogeneous Kh and VANI and of zero areal recharge were maintained and the values for Kh and VANI were allowed to range between the minimum and maximum values produced by the 2015 constant

rate aquifer test performed using interim measure extraction well KAFB-106228 (Table I-6-2) (Kirtland AFB, 2016).

Version 1 of the model was calibrated to a single boundary condition based on a gradient estimated for Q4 2017 conditions. This updated version (Version 2) was simultaneously calibrated to the Q4 2017 and the Q4 2018 conditions. The calibration criteria were established as:

1. A Normalized Root Mean Squared Derivation of less than 10 percent (%) for the entire model domain.
2. Simulated head at each of the three interim measure drawdown monitoring well nests (KAFB-106037, KAFB-106092, and KAFB-106203), matching the lowest observed drawdown in the nest to within 10% of the total head drop measured within the model domain. The acceptable error tolerance was +/- 0.34 feet (ft) and +/- 0.46 ft for Q4 2017 and Q4 2018, respectively.

Thirty-six model simulations, containing different Kh/VANI combinations, were run for both the Q4 2017 and Q4 2018 conditions for a total of 72 calibration runs (Table I-6-3). A total of 19 simulations, with Kh ranging from 110 ft/day to 130 ft/day and VANI ranging from 0.005 to 0.05, produced results meeting the calibration criteria. From these, the simulation with a Kh of 120 ft/day and a VANI of 0.01 was chosen as the best-fit model as it produced the lowest combined error at the three drawdown monitoring nests. Figure I-7-2 shows scatterplots of the simulated versus measured heads for both the Q4 2017 and Q4 2018 conditions. Under Q4 2017 conditions, the simulated heads met the calibration criteria at 62 of the 79 calibration locations (78%) producing a Normalized Root Mean Squared Derivation of 9.4%. Under Q4 2018 conditions, the simulated heads met the calibration criteria for 57 of the 78 calibration locations (73%) producing a Normalized Root Mean Squared Derivation of 9.4%.

Figure I-6-3a shows the spatial distribution of simulation head residuals across the model domain for Q4 2017 conditions. Outside of the interim measure objective area, south of Ridgcrest Drive Southeast, the residuals exceeding the calibration criteria are dispersed and surrounded by calibrated regions showing no grouping that may indicate a flaw in the design of the conceptual model. Small, localized regions where calibration cannot be achieved are expected using a homogeneous model to simulated heads in an aquifer known to have thin, discontinuous lenses of high and low permeability material. However, within the objective area, there does seem to be a more continuous region where simulated heads exceed the calibration criteria. This region is located around the northern side of KAFB-106234, extending clockwise from a region of high simulated head at the KAFB-106235 well nest around to a region of low simulated heads at the KAFB-106219 well nest.

Figure I-6-3b shows the spatial distribution of simulation head residuals across the model domain for Q4 2018 conditions. The same general pattern of errors exists under these conditions with a dispersal of calibrated and uncalibrated regions outside of the objective area and a more continuous and expanded region of error around KAFB-106234. Having the same region express above tolerance error under two different conditions suggests an inadequacy in the conceptual model upon which the model is designed. Given the assumptions contained in the model, the most likely conceptual model change to address this region of error would be in the assumption of homogeneous hydraulic conductivity.

In order to test this hypothesis, a grain-size based permeability analysis of the objective area aquifer was performed. In unconsolidated aquifers, permeability is primarily controlled by the d10, or 10% finer grain size. Using bore logs recording visually determined grain sizes, a three-dimensional d10 grain size model was constructed of the objective area. The aquifer was delineated into eight grain size categories: clay, silt, very fine sand, fine sand, medium sand, coarse sand, very coarse sand, and gravel. The d10 model results were analyzed between an elevation of 4,905 and 4,785 ft above mean sea level, the bottom of which represents the lithology reporting depth from the shallowest reference elevation interval (REI)

4814 monitoring well in the objective area. In this region, the model estimates that sand and gravel make up 80% of the aquifer material, very close to the 85% expected from the literature reviews performed for Appendix I-7 of the Q2 2018 report (Kirtland AFB, 2018b). Fine sand was found to be the most dominant grain size at 47%. Clay and silt were distributed as thin discontinuous lenses and very fine sand through medium sand seemed to be well mixed throughout the aquifer volume. The 6% of coarse sand and gravel, however, showed to be primarily grouped into to relatively continuous lenses.

Figure I-6-4 shows the distribution of coarse sand and gravel in the objective area between the elevations of 4,845 and 4,800 ft above mean sea level. In this region, coarse sand and gravel lenses with thicknesses ranging from 5 to greater than 25 ft are intercepted by interim measure extraction wells KAFB-106228, KAFB-106233, and KAFB-106234 and by base water supply well KAFB-003. The extent and elevation of these high permeability lenses seem to be well correlated with most of the calibration errors seen in both the Q4 2017 and Q4 2018 simulations.

Figure I-6-4a shows the Q4 2017 calibration residuals overlain on the coarse sand and gravel lens locations. All of the simulated heads above the acceptable error tolerance (orange and red dots) are located on the high permeability lens connecting to KAFB-106234 extraction at an elevation of 4,825 ft above mean sea level. It is likely that this error is due to the presence of this lens and that if the lens was incorporated into the model design, this high permeability pathway would channel most of the water extracted from KAFB-106234. This would result in reducing the total drawdown currently simulated at KAFB-106234 and directionalizing the drawdown to the west, northwest decreasing simulated heads in monitoring wells intercepting the lens. The high permeability lens connecting KAFB-003 drawdown to the deeper monitoring wells in the KAFB-106207 nest would have the same effect on KAFB-003 drawdown. By reducing drawdown at depth in both of these extraction wells, the below acceptable simulated heads seen at depth between the two extraction wells should increase. Figure I-6-4a also shows the location of vertical gradients observed in nested monitoring wells. The black stars show where relatively low heads exist in either REI 4838 or REI 4814 monitoring wells causing vertical head differences of 0.5 ft or greater. All of these wells are located on high permeability lenses connecting to either KAFB-106228 or KAFB-106233. It is likely that the addition of these pathways to the numerical model design would allow the model to be calibrated to represent these vertical gradients.

Figure I-6-4b shows the same type of comparison, overlaying Q4 2018 calibration residuals on the high permeability pathways. The distribution of errors is similar suggesting that addition of the high permeability pathways into the numerical model would improve calibration by reducing drawdown at KAFB-106234 and KAFB-003 thereby increasing simulated heads between the extraction wells, directionalizing drawdown along the pathways thereby reducing simulated head at the KAFB-106235 monitoring well nest, and directionalizing drawdown from KAFB-106228 such that simulated heads are reduced in the REI 4838 wells at the KAFB-106088, KAFB-106023, and KAFB-106216 nest allowing simulation of observed vertical gradients.

E-6.9 TARGET CAPTURE ZONE DELINEATION METHOD

The following text was initially provided in Appendix I-7 of the Q4 2016 Quarterly and Annual Report (Kirtland AFB, 2017a):

The interim measure goal is to reduce the mobility and volume of contaminated media by containing, capturing, and treating contaminated groundwater in the plume north of Ridgecrest Drive SE. The three-dimensional zone of groundwater that must be captured by the interim measure extraction wells (i.e., the Target Capture Zone) is defined as the 0.05 µg/L iso-shell for EDB. The iso-shell is defined as the three-dimensional polygon with a periphery concentration of 0.05 µg/L. Water chemistry samples from vertically nested wells have shown that EDB in concentrations above the detection limit does not extend throughout the entire thickness of the impacted portion of the aquifer; therefore, a three-dimensional delineation of the Target Capture Zone is required.

Three-dimensional delineation of the Target Capture Zone was performed using C-Tech Mining Visualization System (MVS) software. EDB concentrations from 136 screen intervals were modeled using the Krig_3D module, which created a hexahedral finite-element grid with kriged nodal values of the EDB dissolved concentrations. The horizontal concentration grid had 69 grid nodes in the X direction and 87 grid nodes in the Y direction that establish a grid spacing of approximately 100-feet in both directions. The vertical concentration grid consisted of 36 nodes spaced approximately 5-feet apart. The X and Y grid spacing ensured that each measured concentration value had a unique grid node location as the minimum distance between screened intervals with similar elevations is 134.5-feet (e.g., wells KAFB-106083 and KAFB-106018). The grid spacing in the Z direction best articulated the open interval of each well screen. Vertical screened intervals ranged from 10- to 30-feet; thus, the 5-foot grid spacing allows the model to represent the top and bottom of each interval.

The other key parameter setting for the Krig_3D module is the Horizontal/Vertical (H/V) Anisotropy Ratio. This parameter allows the model to consider the effects of anisotropy in the hydraulic conductivity of soil matrices. In most cases, geologic materials are deposited with platy clay minerals oriented horizontally and, thus, flow of water in both the saturated and unsaturated zone can be slower in the vertical direction than in the horizontal direction. Chemical constituents being transported with flowing fluids may, therefore, show a larger degree of spreading in one versus the other direction. The H/V Anisotropy Ratio tells the kriging algorithm what multiplication factor should be used to weight data points located in horizontal and vertical directions away from a given model node. The conceptual model of the aquifer, based on AECOM produced stratigraphic cross sections (AECOM, 2016), represents the aquifer as being predominantly composed of fine- to coarse-grained sands with clay, silt and gravel lenses of varying extent. An H/V Anisotropy Ratio of 30 was used to represent preferential horizontal flow through coarse grain materials.

EDB concentrations were assigned along the entire screen interval for each well sampled. If the screen interval was completely submerged within the saturation zone, the measured concentration was assigned elevations representative of the top, bottom, and 5-foot intervals along the screen length. If the screen interval extended above the saturation zone, the measured concentration was assigned at the water table elevation instead of the top of screen elevation. The lowest reported concentration above detection that was included in the model was 0.011 µg/L. Therefore, a detection limit of 0.01 µg/L was assumed and nondetect samples were assigned a concentration of one-half of that value (0.005 µg/L) because the EDB detection limit was not consistent between all measurements.

Figure 5-2 shows the modeled Target Capture Zone from the last four synoptic measuring periods for EDB concentration. The plume volume defined by the 0.05 µg/L iso-shell changes between measuring periods as a result of the rising regional water table and interim measure extraction activity. The actual

volumetric change is not presented or evaluated in Figure 5-2; it is only provided for graphical visualization. The Target Capture Zone is considered to be dynamic and will continue to be re-modeled with each subsequent measurement period to evaluate performance. Appendix I, Figure I-6-1 shows these four Target Capture Zones in relation to monitoring well screen intervals for graphical analysis of the dataset available for the production of the plume iso-shell.

E-6.10 REFERENCES

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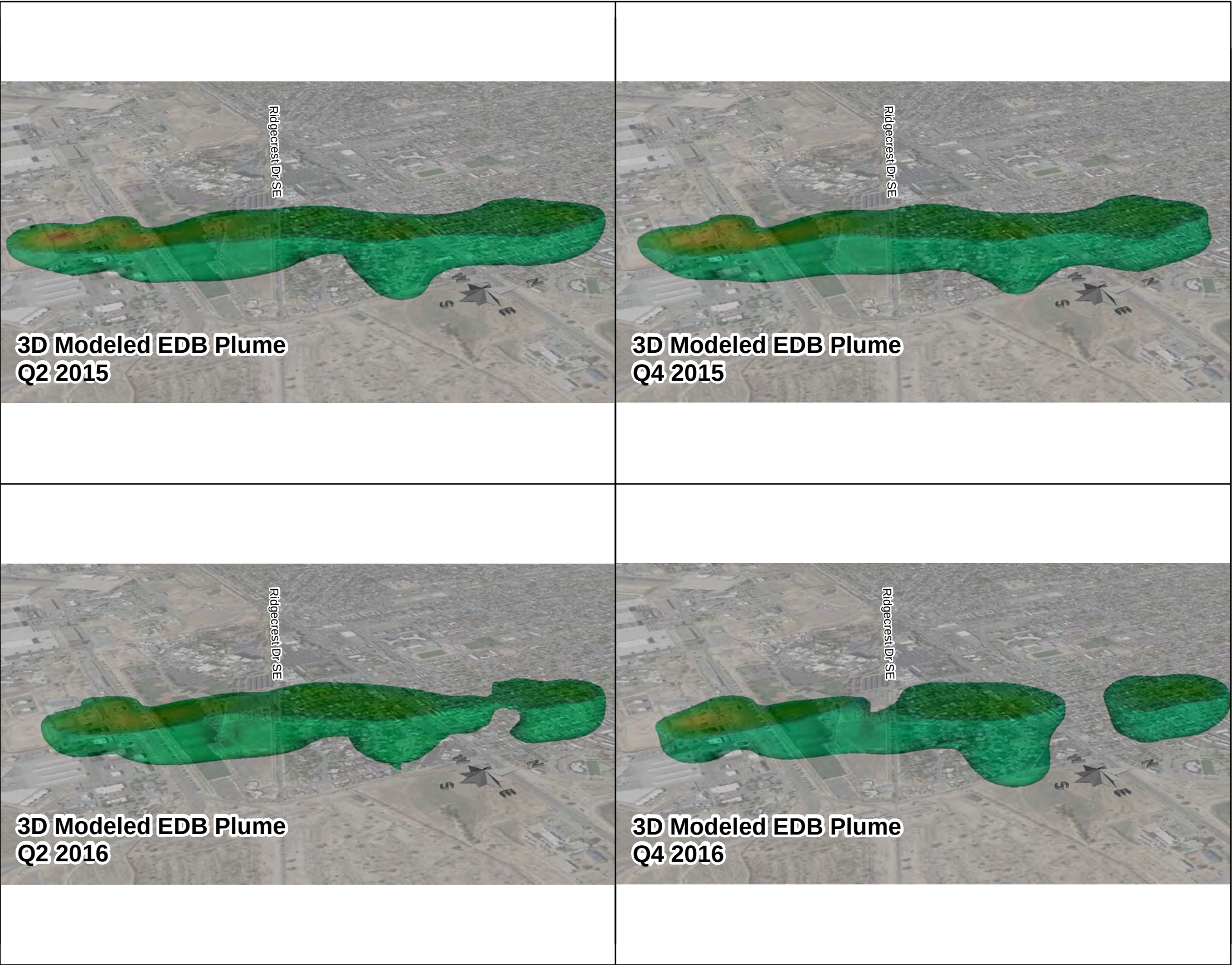
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FIGURES

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- Q4 2016 Figure 5-4 – Horizontal Capture in Reference Elevation Interval 4838, Q2 2016
- Q4 2016 Figure 5-5 – Horizontal Capture in Reference Elevation Interval 4857, Q4 2016
- Q4 2016 Figure 5-6 – Horizontal Capture in Reference Elevation Interval 4838, Q4 2016
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- Q4 2017 Figure 3-23 – Source Area Well Comparison between Low Flow Samples and Passive Samplers in REI 4857, Q4 2017
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- Q4 2018 Figure I-6-4 – Spatial Distribution of Simulated vs Measured Residuals and Lithology, Q4 2017 and Q4 2018



Legend

0.05 µg/L EDB Iso-shell

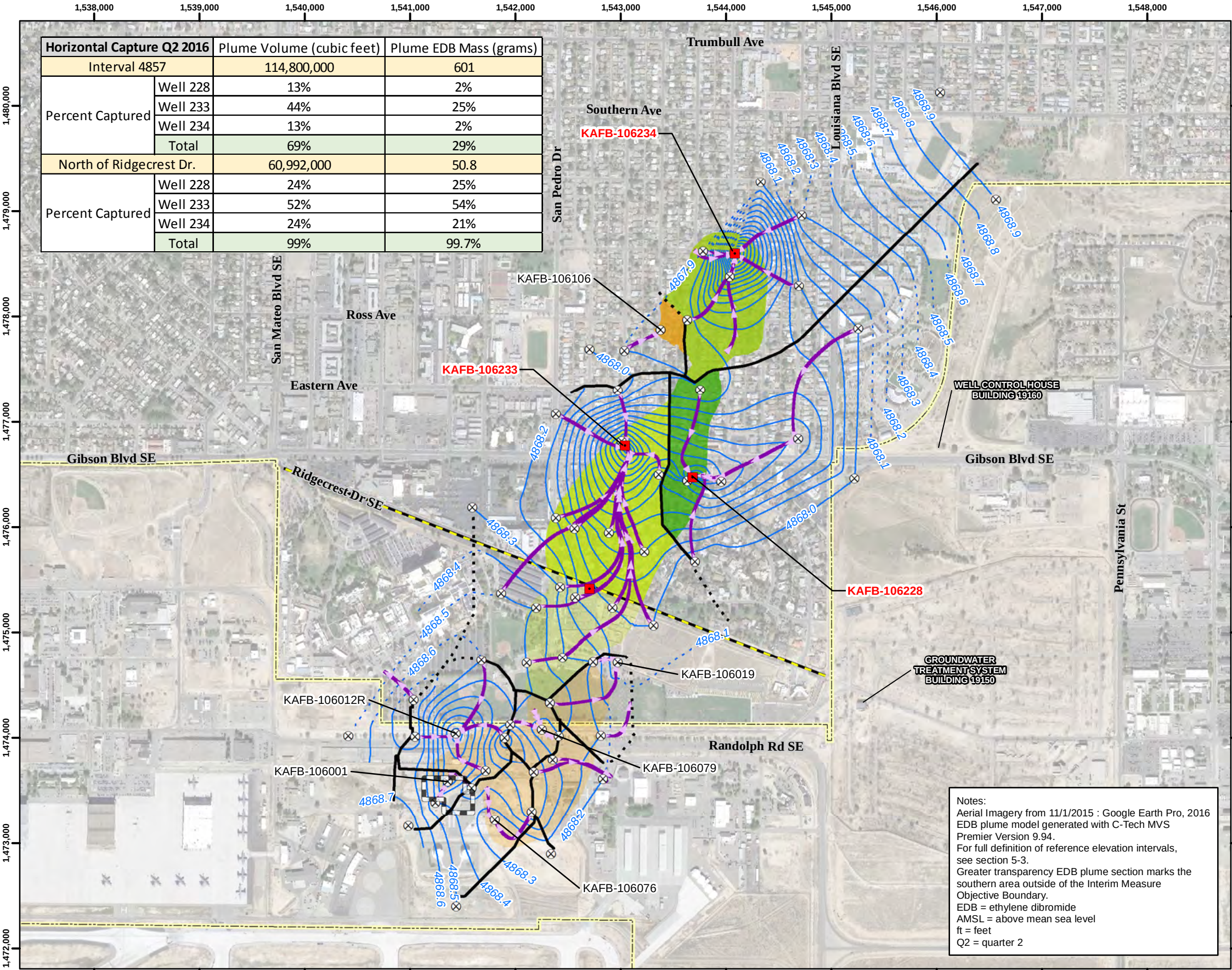
Notes:
Aerial Imagery from 11/1/2015 : Google Earth Pro, 2016
EDB plume model generated with C-Tech MVS
Premier Version 9.94.
3D models exaggerated by a factor of 10.
EDB = ethylene dibromide
µg/L = microgram(s) per liter
Q2 = quarter 2
Q4 = quarter 4

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FIGURE 5-2

COMPARISON OF
TARGET CAPTURE ZONES
2015 - 2016

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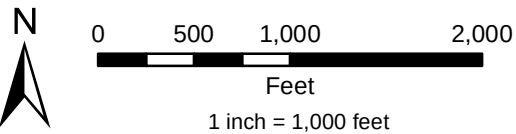
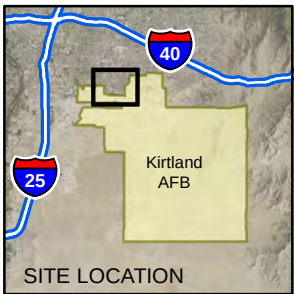


Legend

- Extraction Well
- Groundwater Monitoring Well
- Groundwater Level Contour (ft AMSL)
- Inferred Groundwater Level Contour (ft AMSL)
- Particle Flow Line (Direction of Flow)
- Hydraulic Divide
- Inferred Hydraulic Divide
- Installation Boundary
- Interim Measure Objective Boundary

Plume Area Horizontal Capture Analysis

- Captured by Extraction Well KAFB-106228
- Captured by Extraction Well KAFB-106234
- Captured by Extraction Well KAFB-106233
- Plume Not Captured
- Source Area



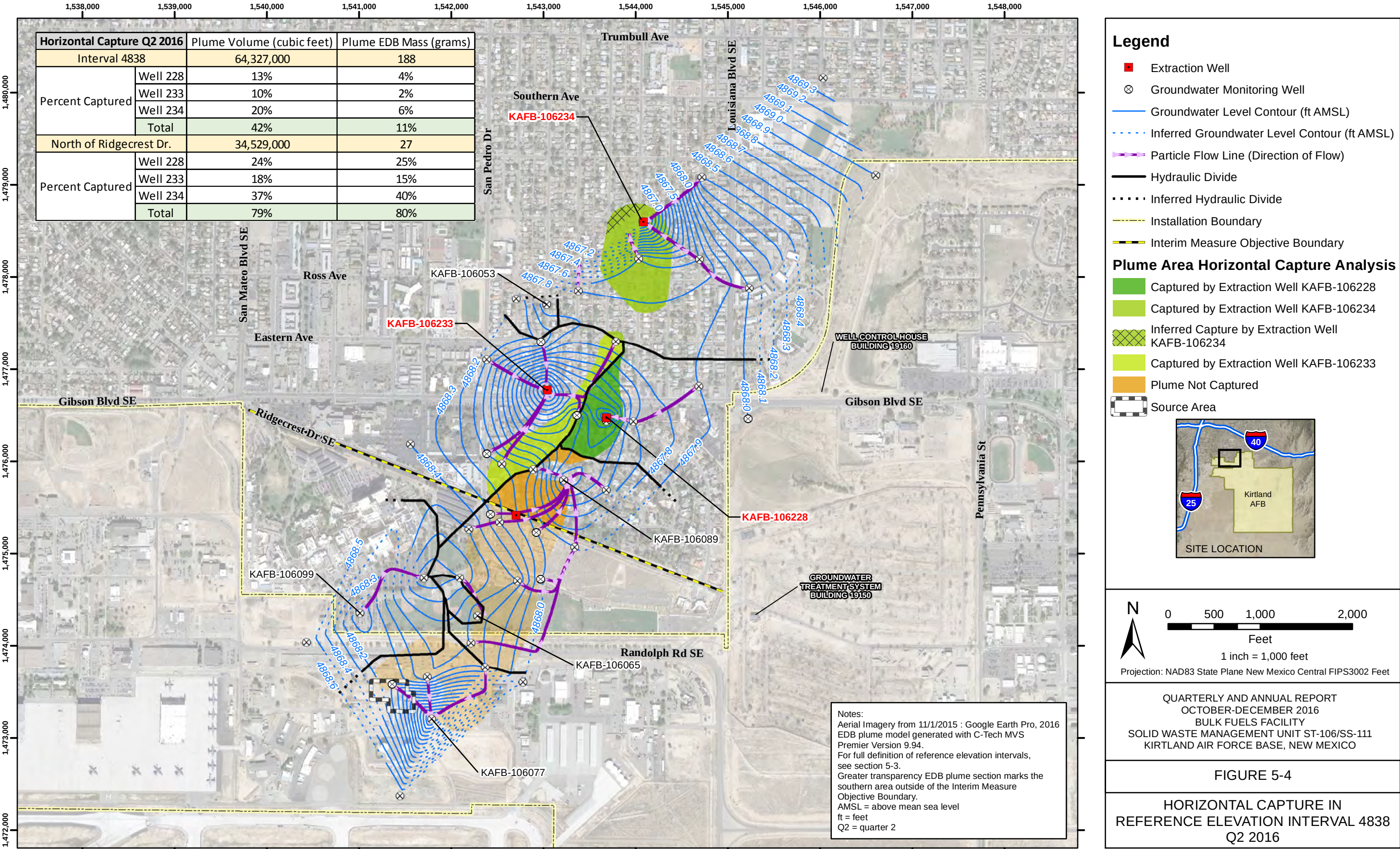
Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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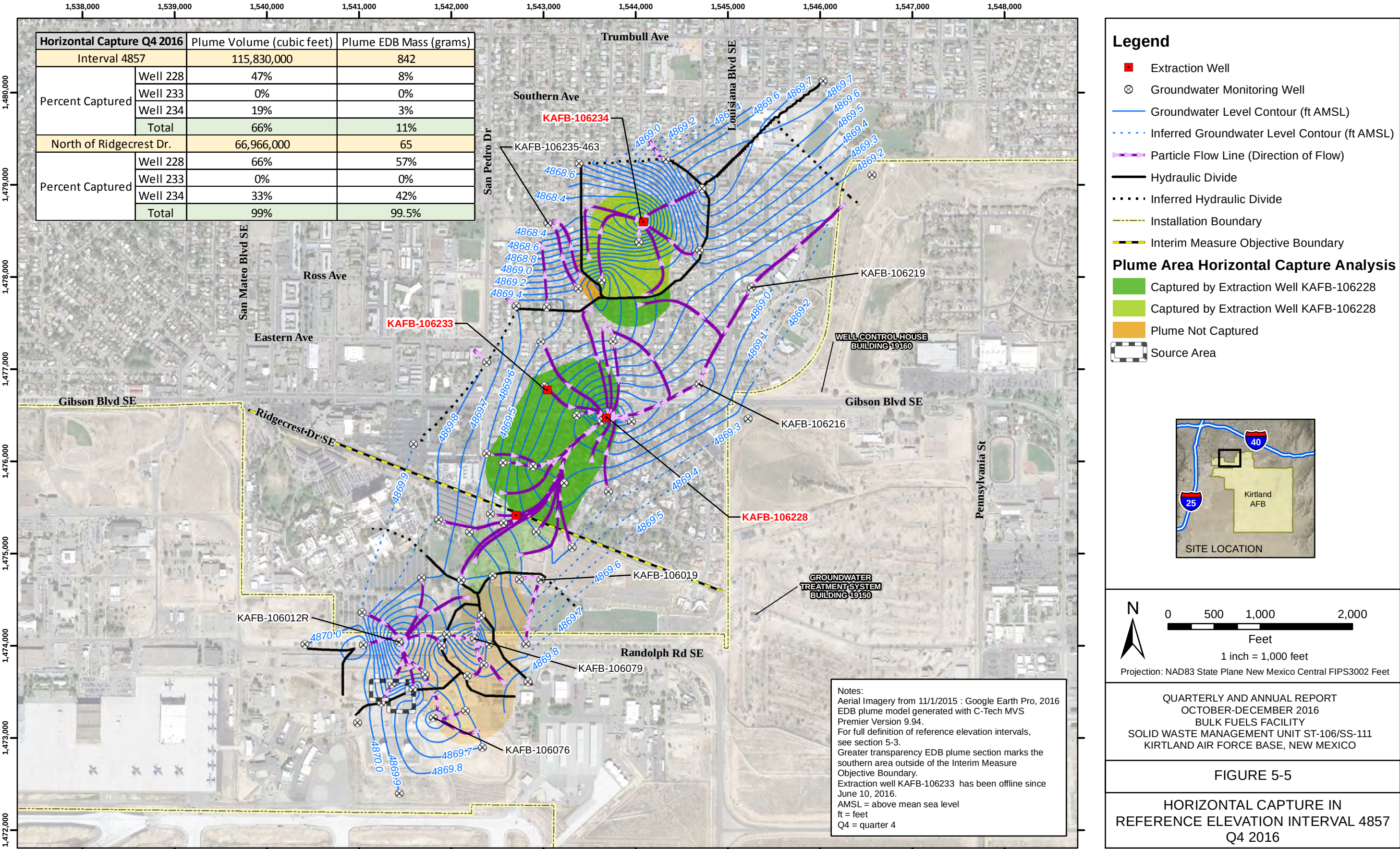
FIGURE 5-3

HORIZONTAL CAPTURE IN
REFERENCE ELEVATION INTERVAL 4857
Q2 2016

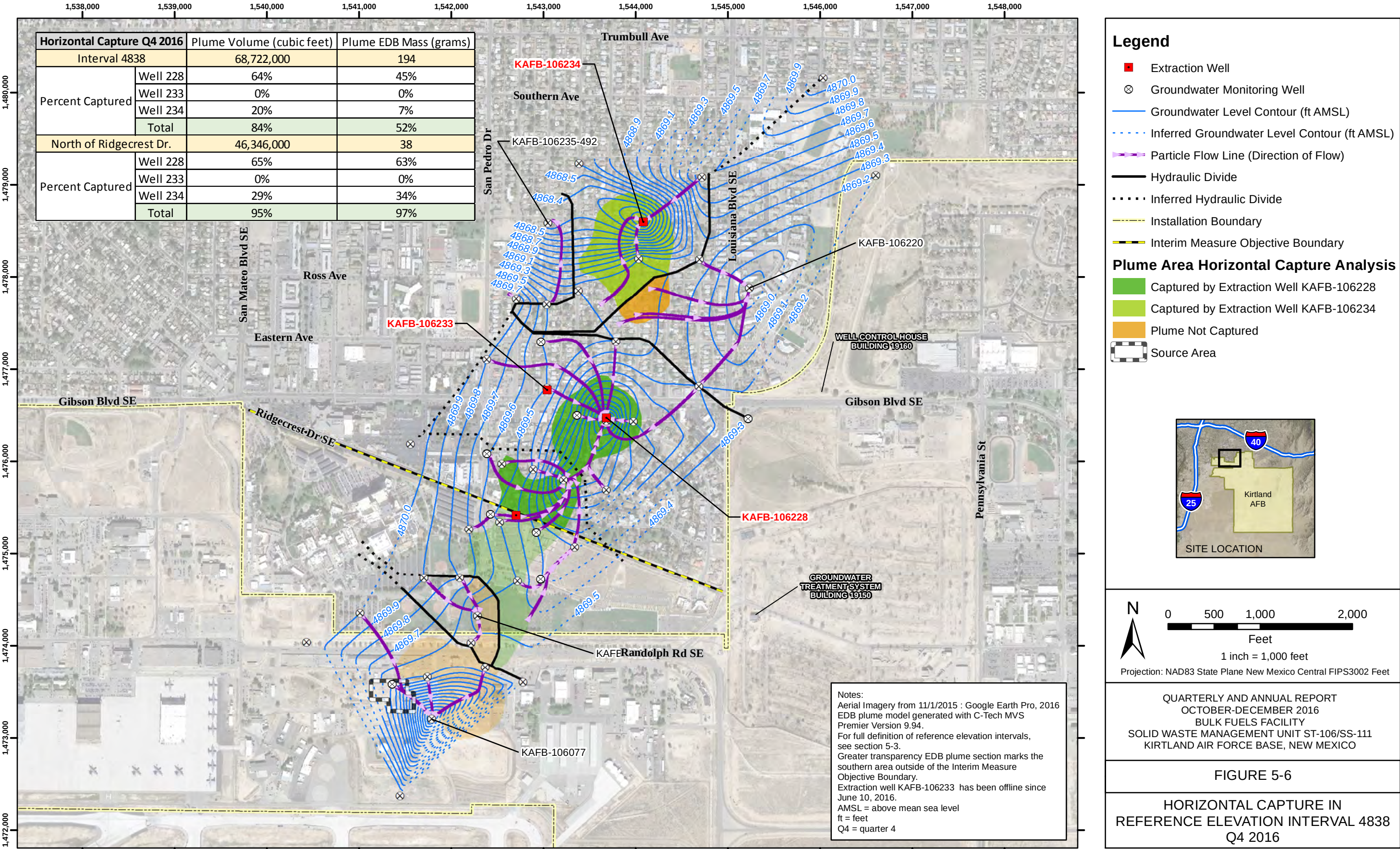
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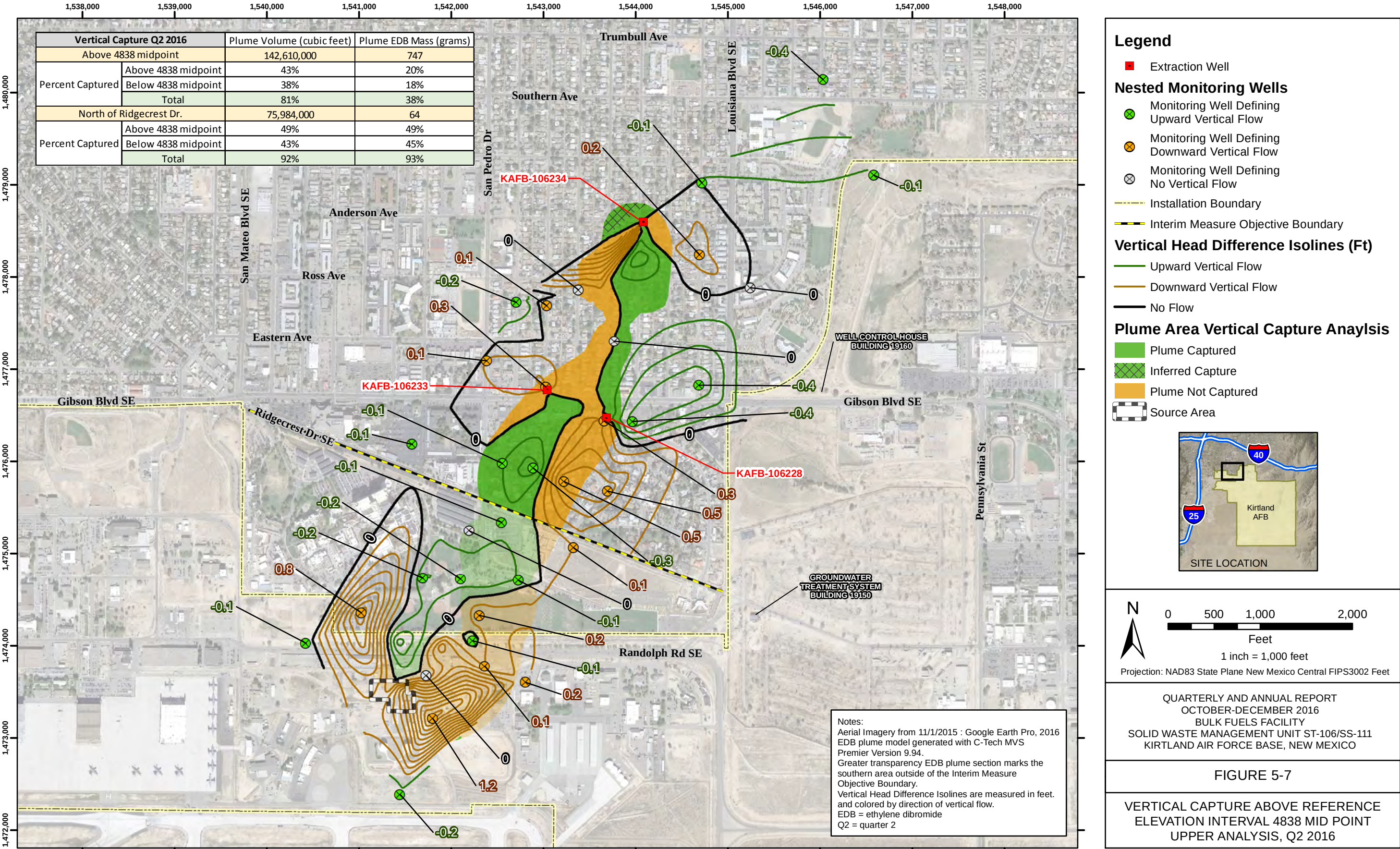


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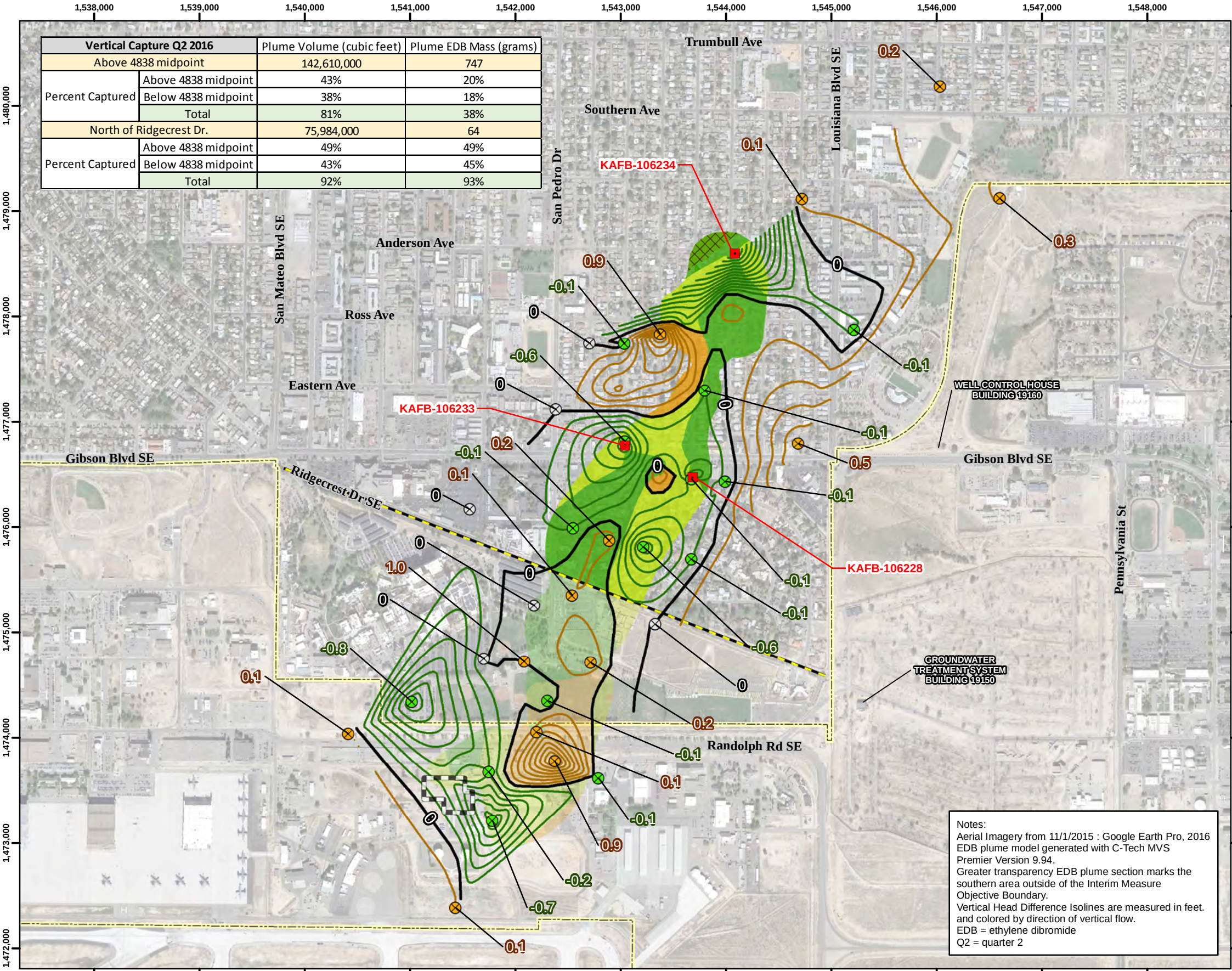
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FIGURE 5-6

HORIZONTAL CAPTURE IN
REFERENCE ELEVATION INTERVAL 4838
Q4 2016



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Legend

■ Extraction Well

Nested Monitoring Wells

● Monitoring Well Defining Upward Vertical Flow

● Monitoring Well Defining Downward Vertical Flow

⊗ Monitoring Well Defining No Vertical Flow

--- Installation Boundary

--- Interim Measure Objective Boundary

Total Plume Vertical Capture Analysis

--- Upward Vertical Flow

--- Downward Vertical Flow

--- No Flow

Plume Area Vertical Capture Analysis

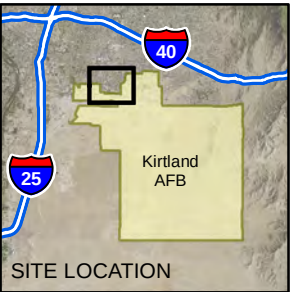
■ Plume Captured Above Mid Point

■ Inferred Capture

■ Plume Captured Below Mid Point

■ Plume Not Captured

■ Source Area



0 500 1,000 2,000
Feet

1 inch = 1,000 feet

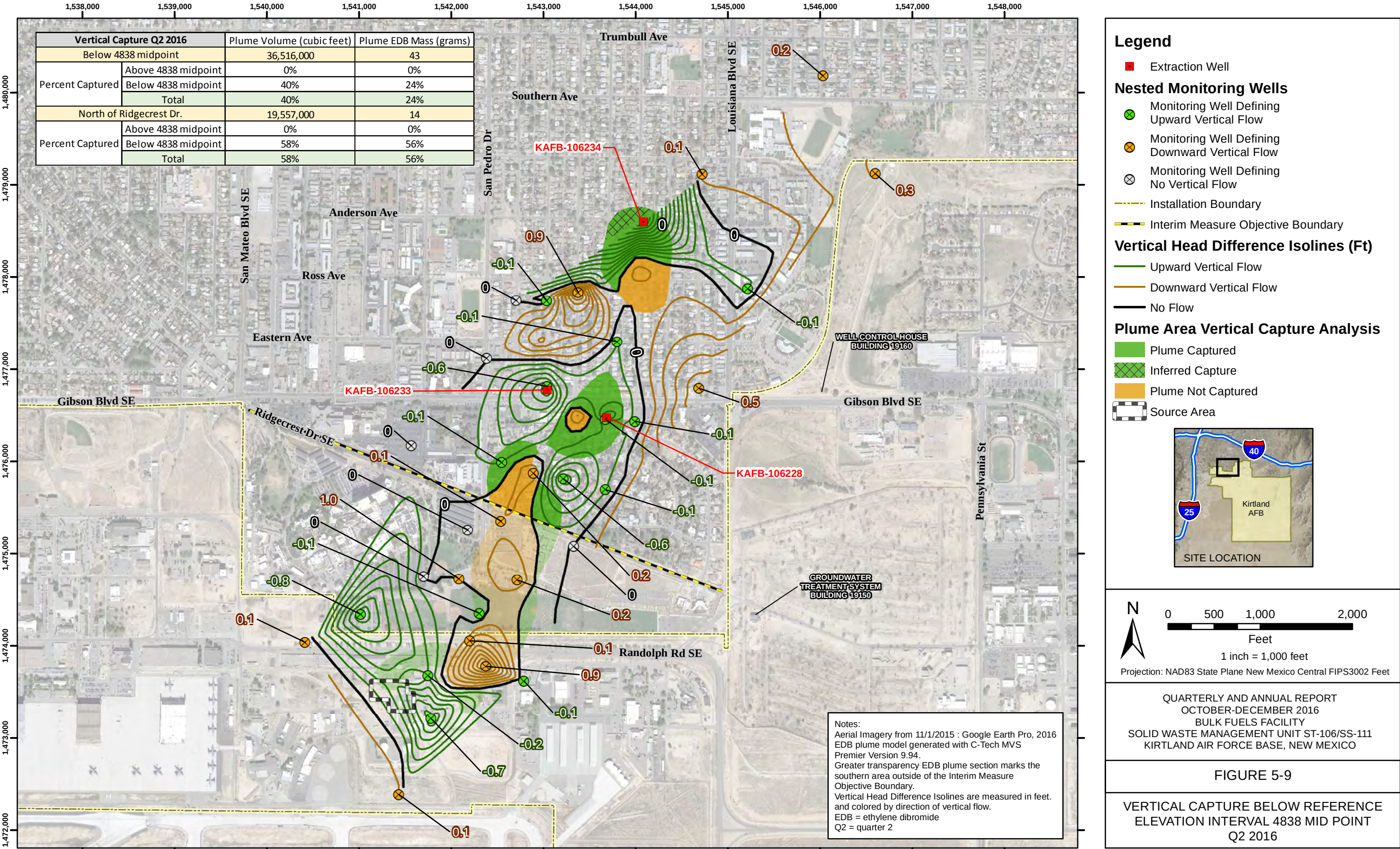
Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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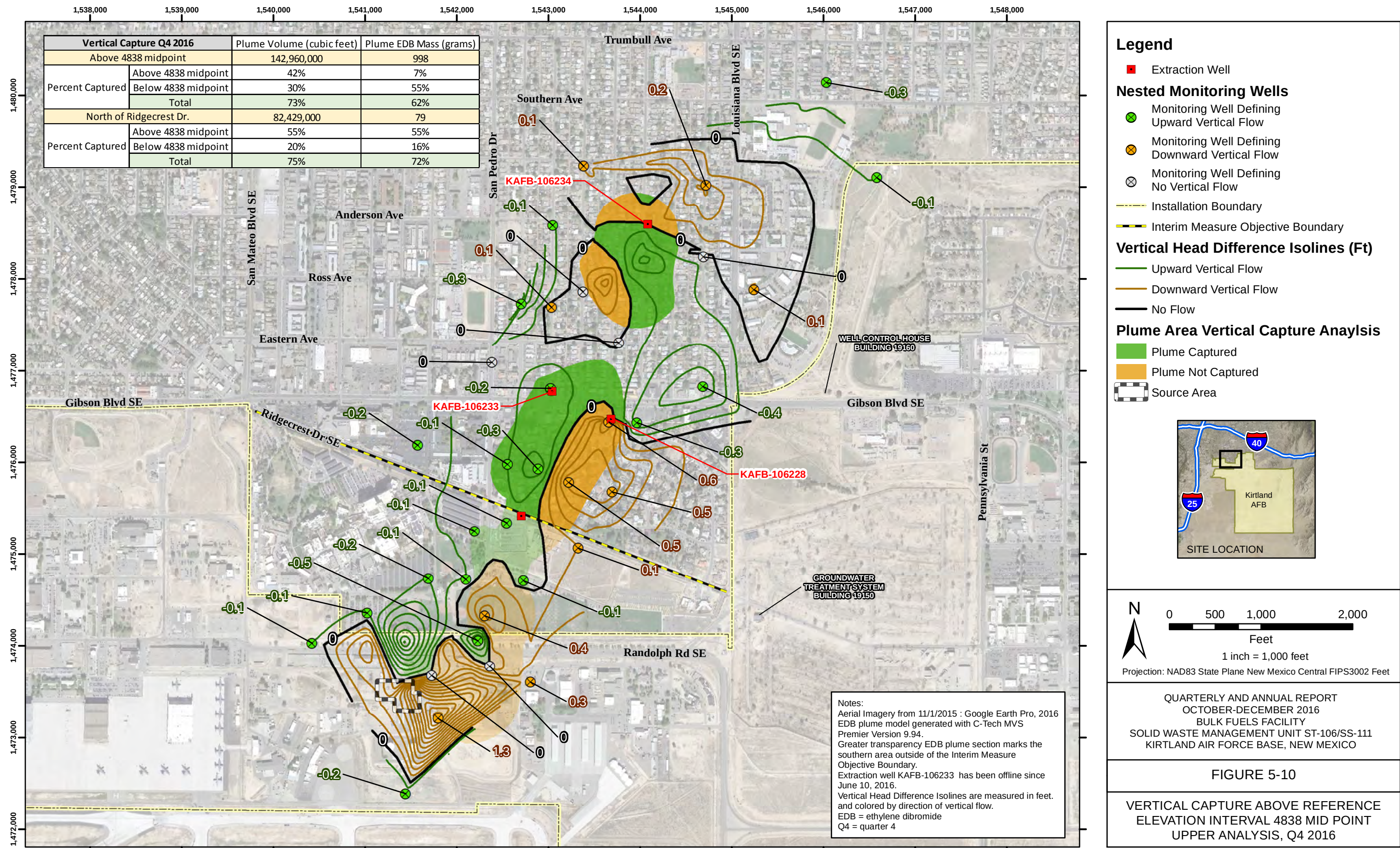
FIGURE 5-8

VERTICAL CAPTURE ABOVE REFERENCE
ELEVATION INTERVAL 4838 MID POINT
LOWER ANALYSIS, Q2 2016

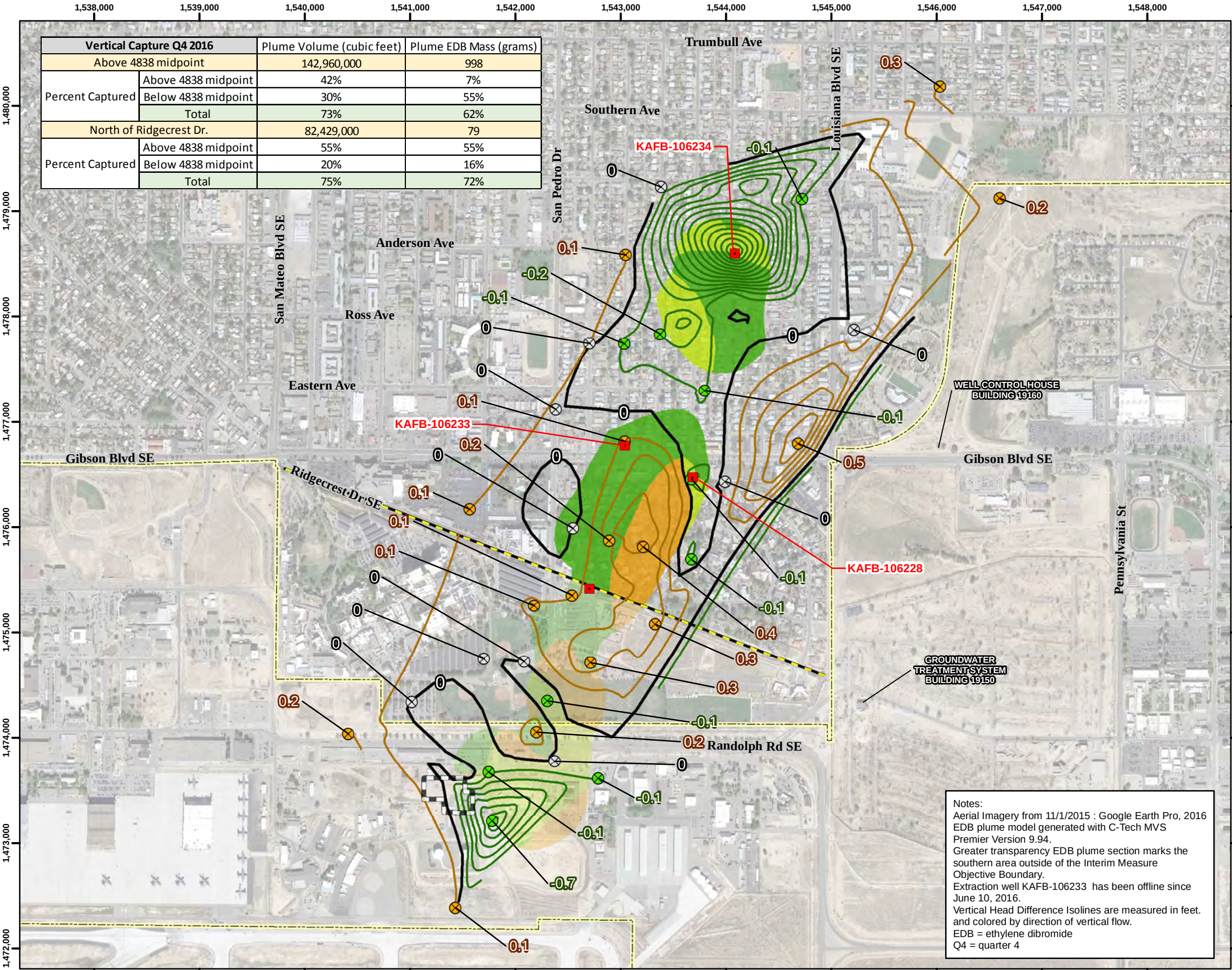
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Legend

■ Extraction Well

Nested Monitoring Wells

- Monitoring Well Defining Upward Vertical Flow
- Monitoring Well Defining Downward Vertical Flow
- ⊗ Monitoring Well Defining No Vertical Flow

--- Installation Boundary

--- Interim Measure Objective Boundary

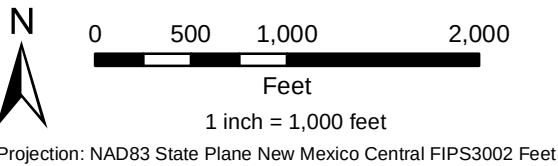
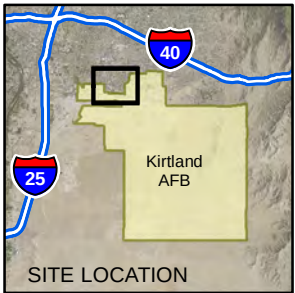
Vertical Head Difference Isolines (Ft)

- Upward Vertical Flow
- Downward Vertical Flow
- No Flow

Plume Area Vertical Capture

- Plume Captured Above Mid Point
- Plume Captured Below Mid Point
- Plume Not Captured

■ Source Area

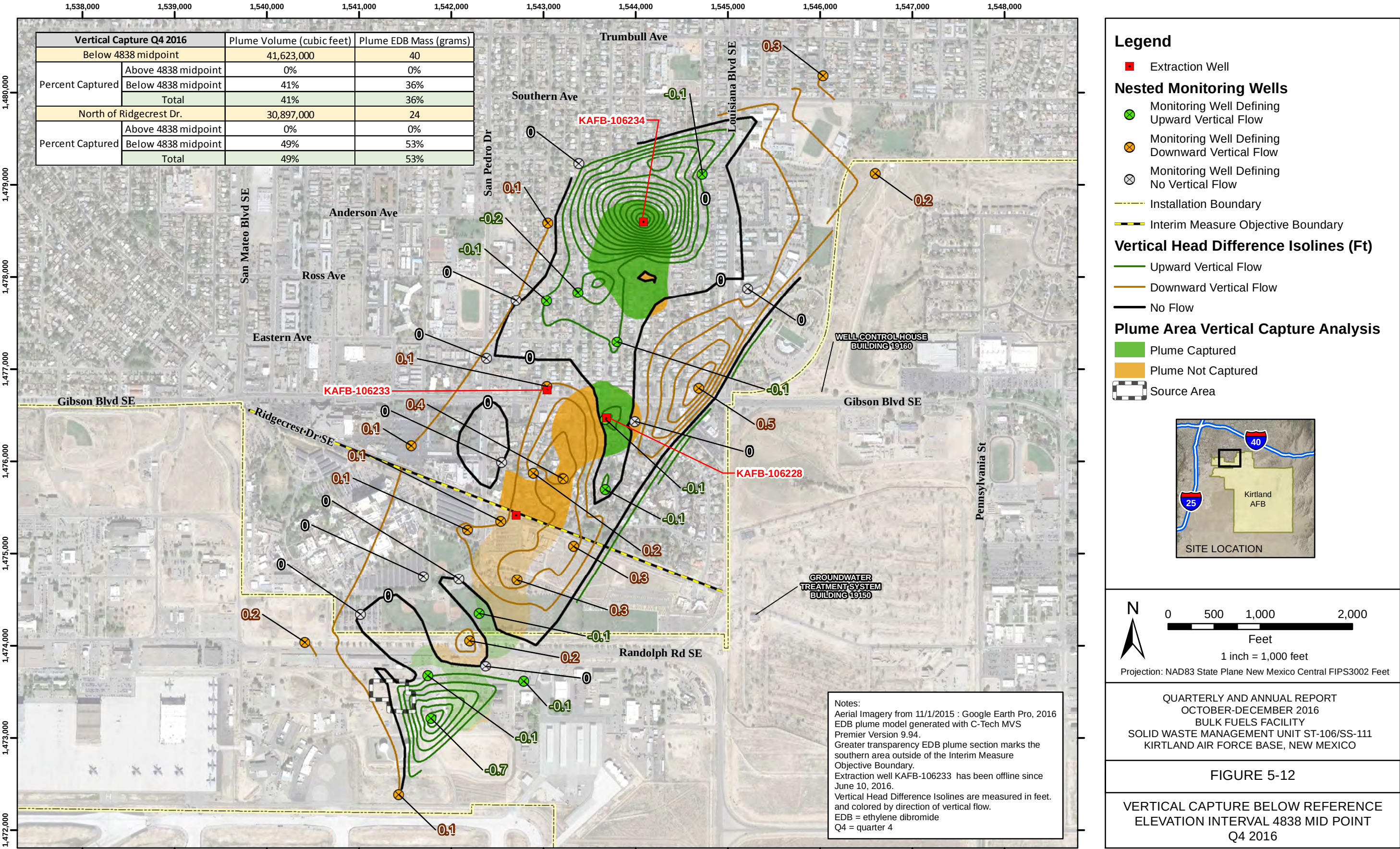


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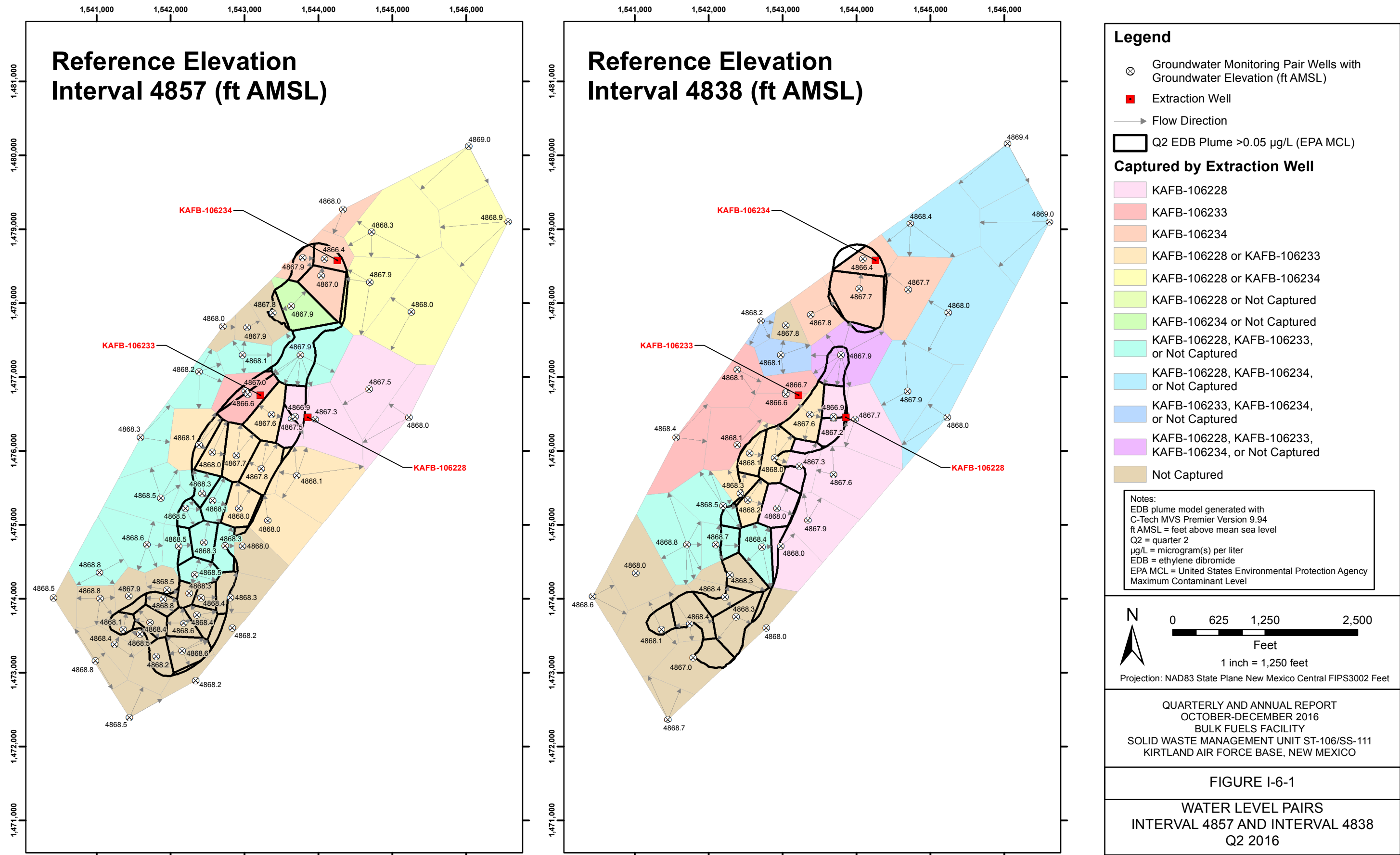
FIGURE 5-11

**VERTICAL CAPTURE ABOVE REFERENCE
ELEVATION INTERVAL 4838 MID POINT
LOWER ANALYSIS, Q4 2016**

P:\gis\Projects\Kirtland\Figures\BFF Quarterly Report\2016_Q4\Report Figures\Section 5\5-11 Vertical Capture Above 4838 Interval Mid Point Lower Analysis, Q4 2016.mxd 2/10/2017 EA sbusby



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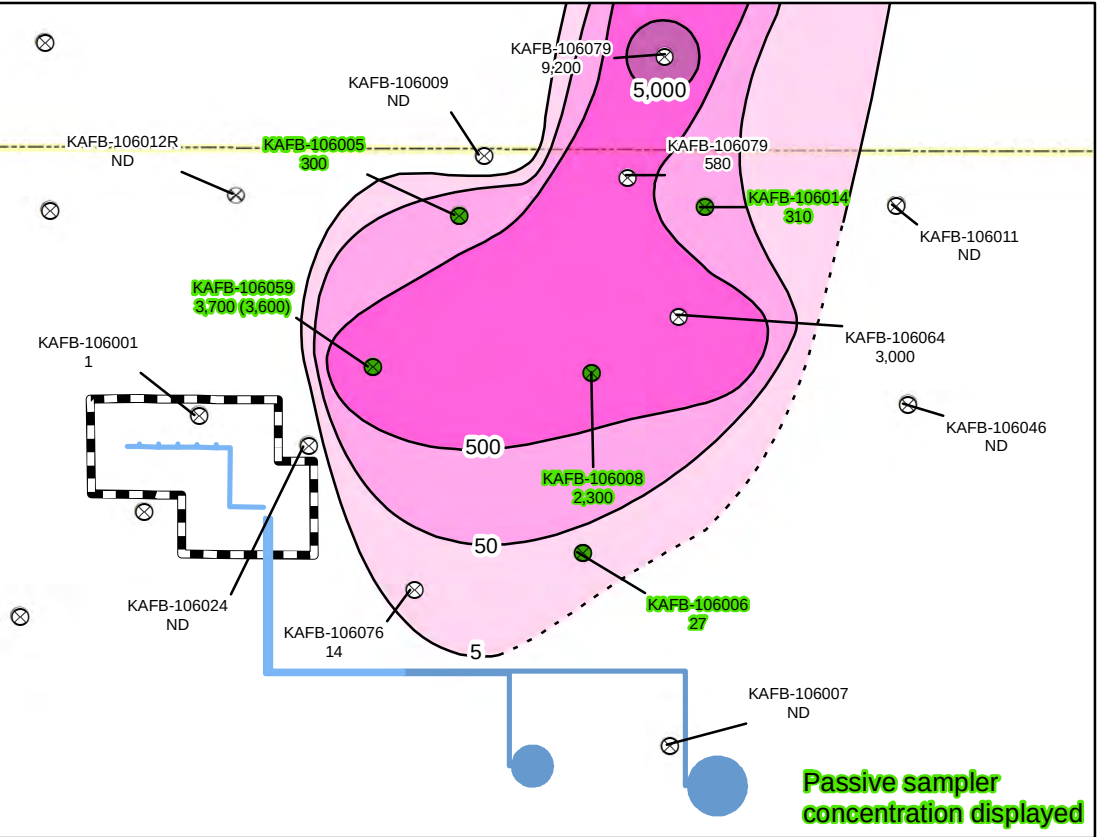
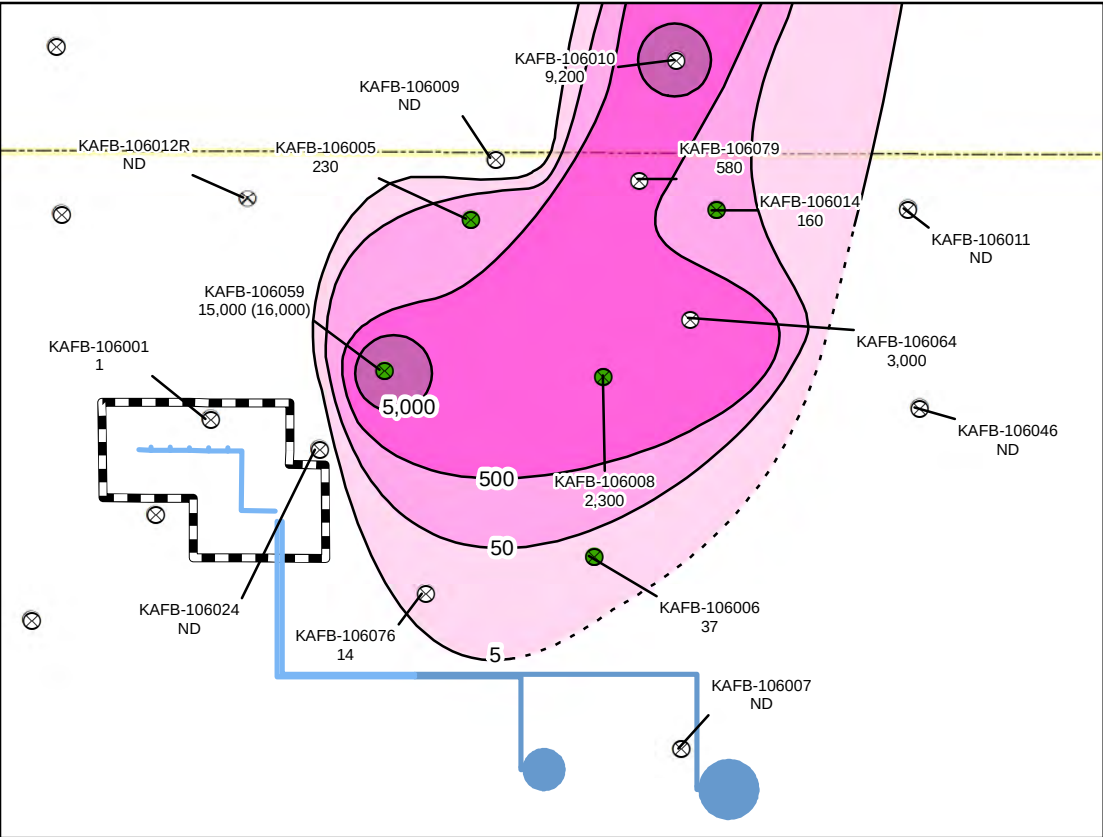


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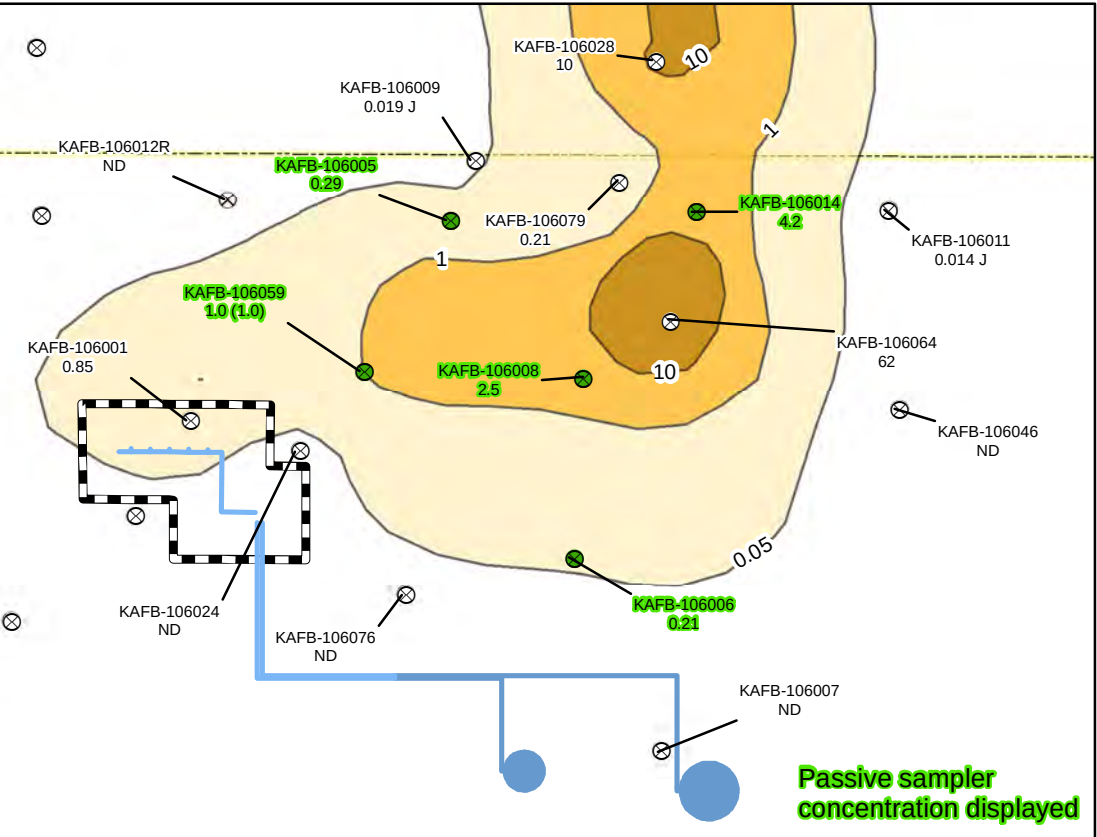
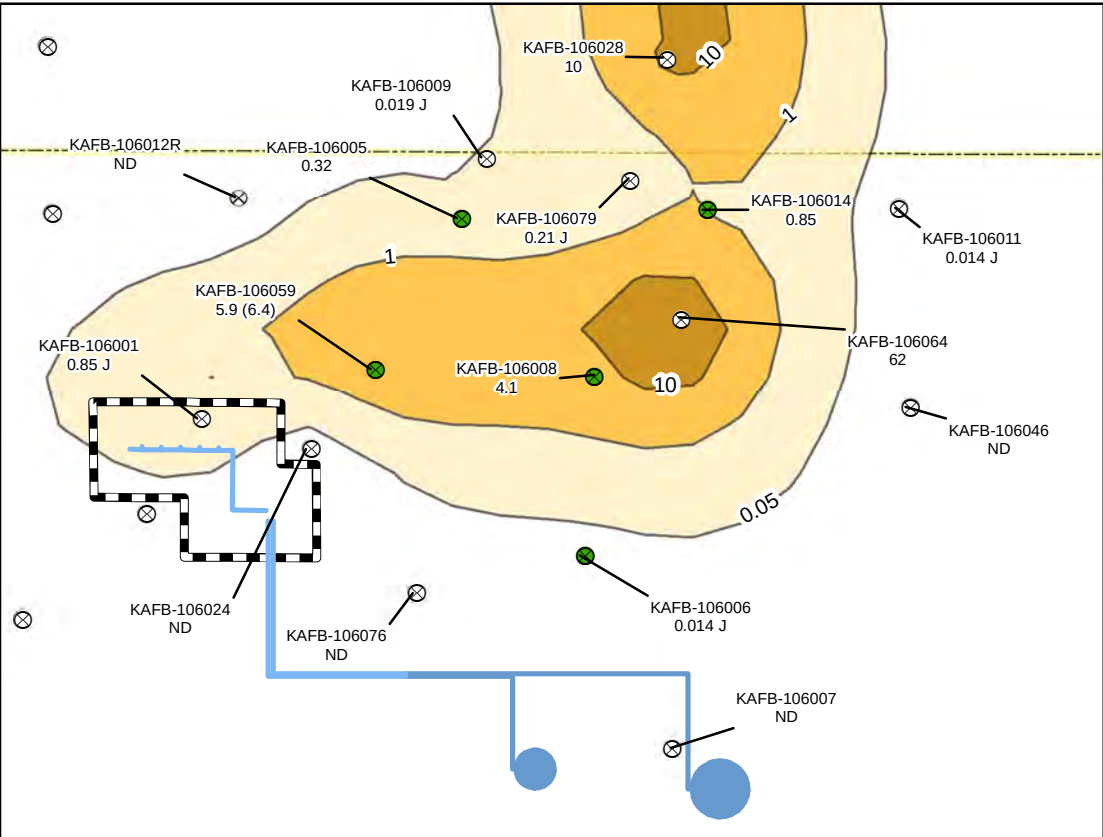
Low Flow Grab Samples

Passive Samples

Benzene



EDB



Legend

- ⊗ Groundwater Monitoring Well
- Groundwater Monitoring Well used in Source Area Comparison Study
- Former Buried Fuel Transfer Line
- Former Aboveground Fuel Transfer Line
- Installation Boundary
- Former Aboveground Storage Tank
- ▭ Source Area

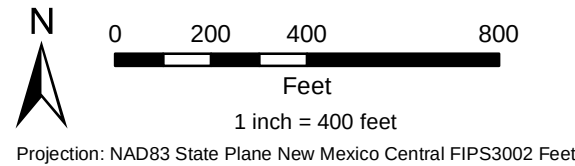
Benzene Concentration Range

- 5.0 (EPA MCL) - 50 µg/L
- 50 - 500 µg/L
- 500 - 5,000 µg/L
- 5,000 - 15,000 µg/L

EDB Concentration Range

- 0.05 (EPA MCL) - 1.0 µg/L
- 1.0 - 10 µg/L
- 10 - 50 µg/L

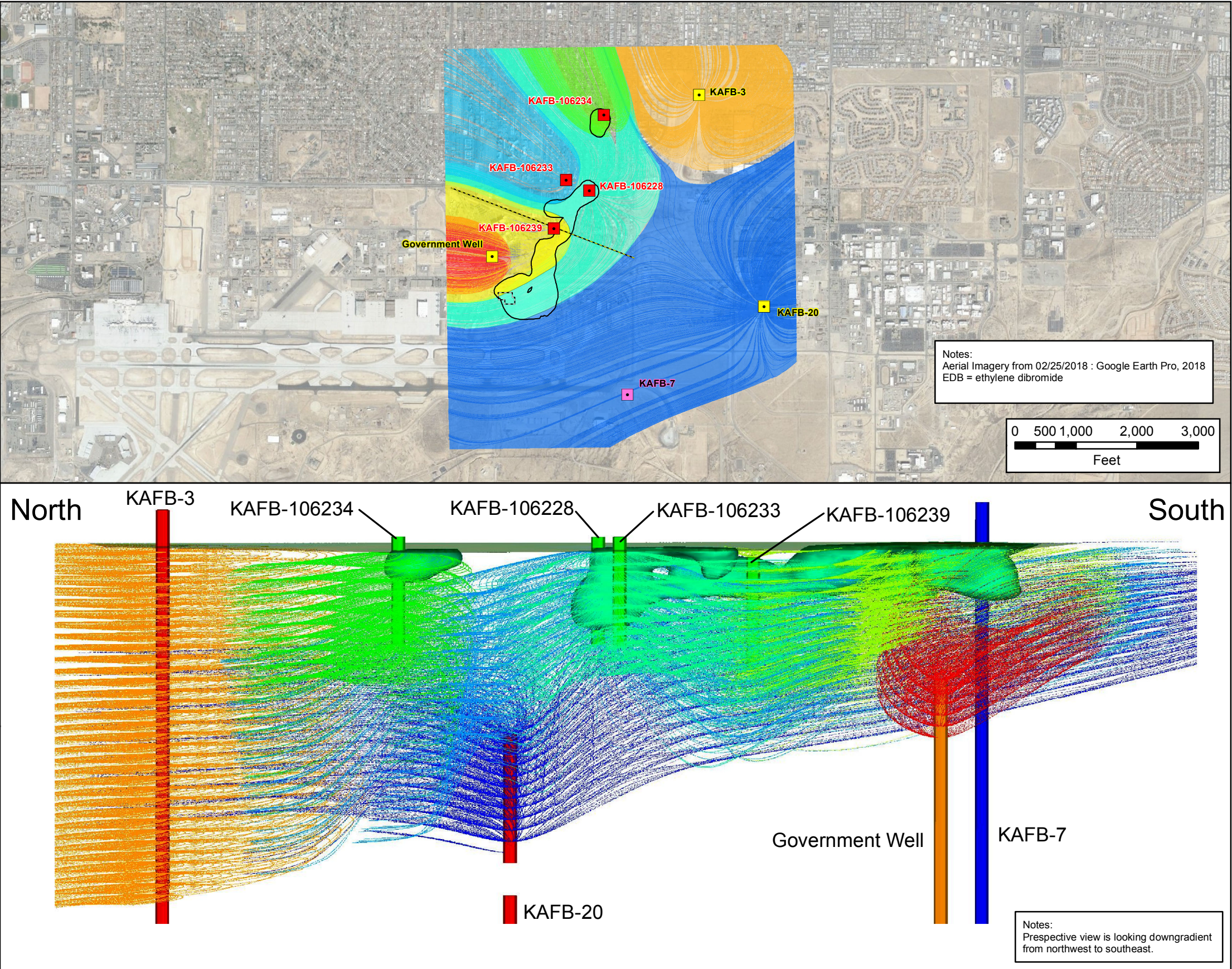
Notes:
Monitoring wells used in comparison study:
KAFB-106005, KAFB-106006, KAFB-106008,
KAFB-106014, and KAFB-106059.
EDB plume based on model generated with
C-Tech MVS Premier Version 9.94.
Values in parentheses are duplicate sample results.
All units are measured in µg/L.
µg/L = micrograms per liter
EDB = ethylene dibromide
ND = nondetect
Q4 = quarter 4
Qualifier(s):
J = denotes the analyte was positively identified,
but the associated numerical value is estimated.



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FIGURE 3-23

SOURCE AREA WELL COMPARISON
BETWEEN LOW FLOW SAMPLES AND
PASSIVE SAMPLERS IN REI 4857, Q4 2017



Legend

- Model Assigned Interim Measure Extraction Well
- Model Assigned Drinking Water Supply Well
- Injection Well KAFB-7
- KAFB-003 Extraction Well Capture Particle Track
- KAFB-20 Extraction Well Capture Particle Track
- KAFB-106228 Extraction Well Capture Particle Track
- KAFB-106233 Extraction Well Capture Particle Track
- KAFB-106234 Extraction Well Capture Particle Track
- KAFB-106239 Extraction Well Capture Particle Track
- Government Extraction Well Capture Particle Track
- Interim Measure Objective Area Boundary
- Source Area

EDB Plume Capture Analysis

Q2 2018 EDB Plume

- Captured by KAFB-20
- Captured by KAFB-106228
- Captured by KAFB-106233
- Captured by KAFB-106234
- Captured by KAFB-106239



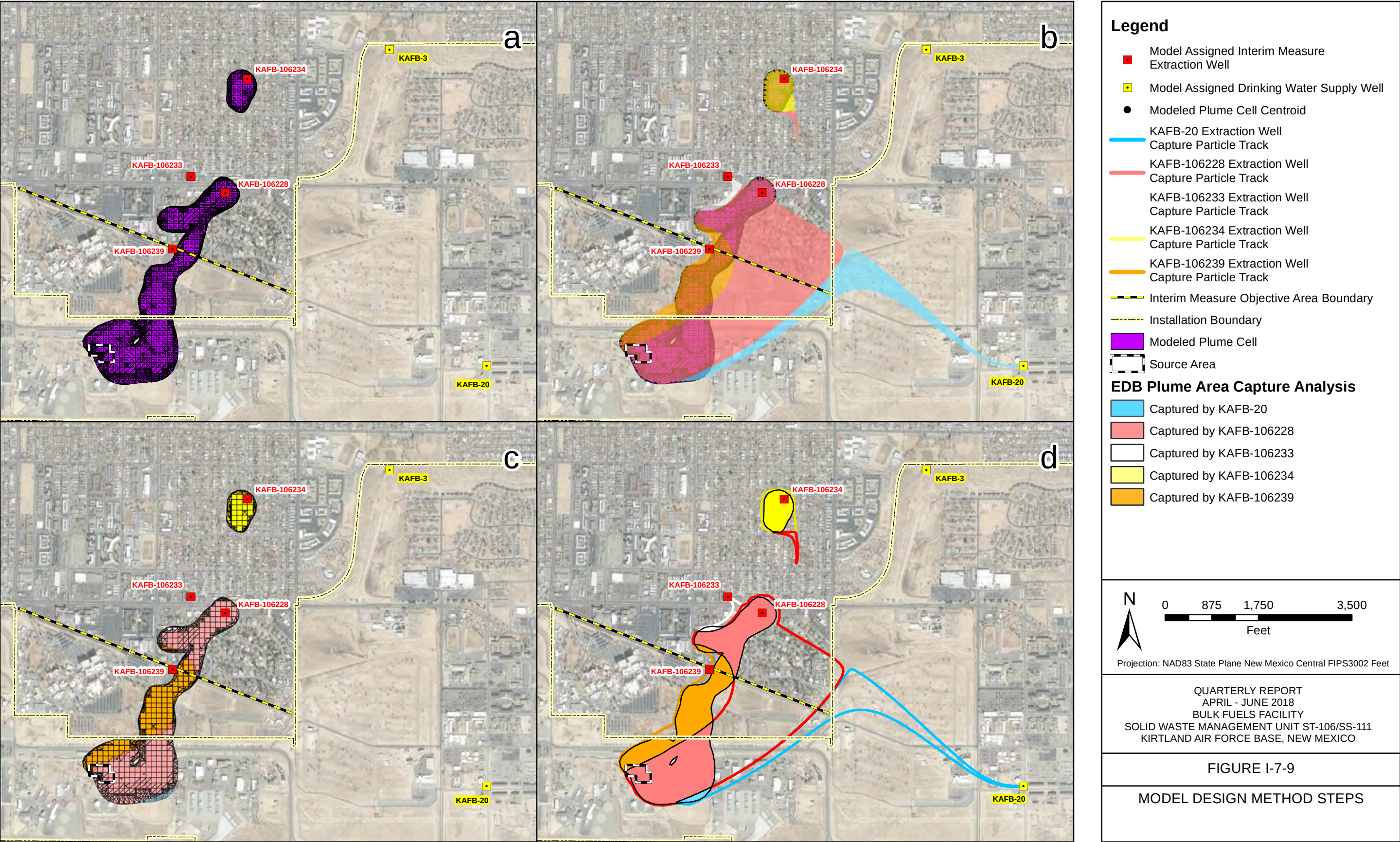
Projection: NAD83 State Plane New Mexico Central FIPS3002 Feet

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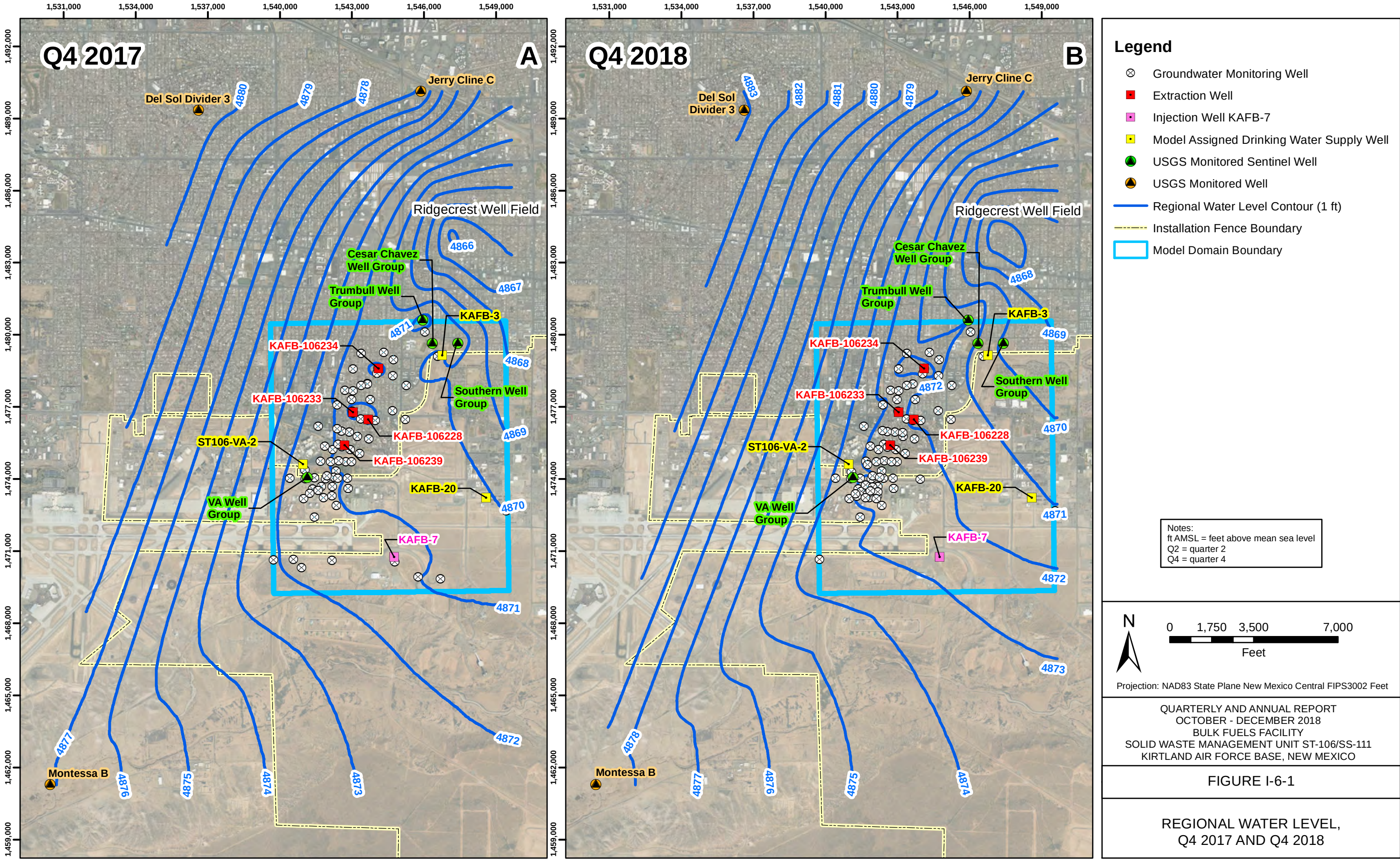
FIGURE I-7-8

PLAN VIEW AND THREE-DIMENSIONAL
PERSPECTIVE VIEW OF EXTRACTION
WELL PARTICLE TRACKS, Q2 2018.

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Legend

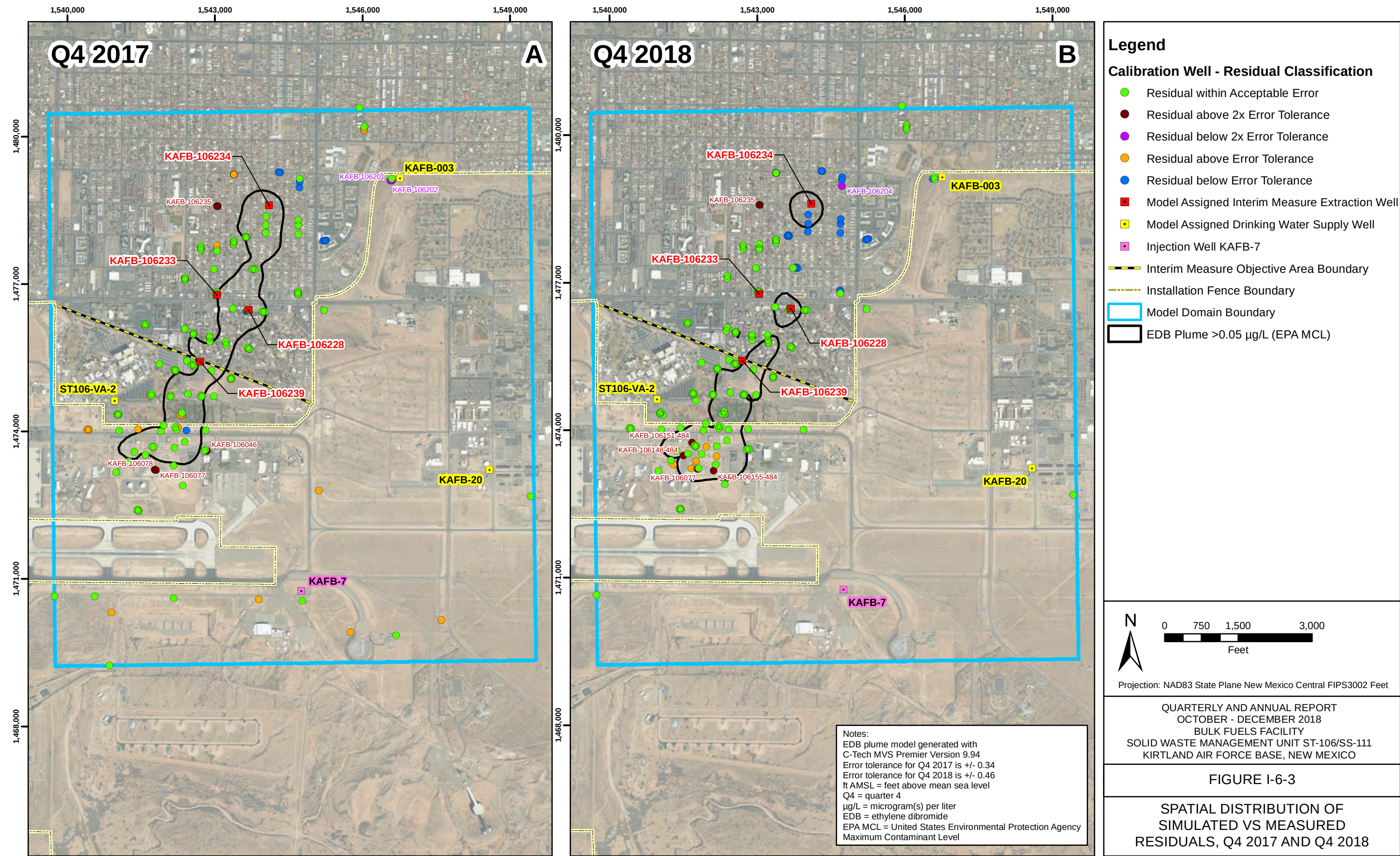
● Simulated vs Measured Groundwater Level

QUARTERLY AND ANNUAL REPORT
OCTOBER - DECEMBER 2018
BULK FUELS FACILITY
SOLID WASTE MANAGEMENT UNIT ST-106/SS-111
KIRTLAND AIR FORCE BASE, NEW MEXICO

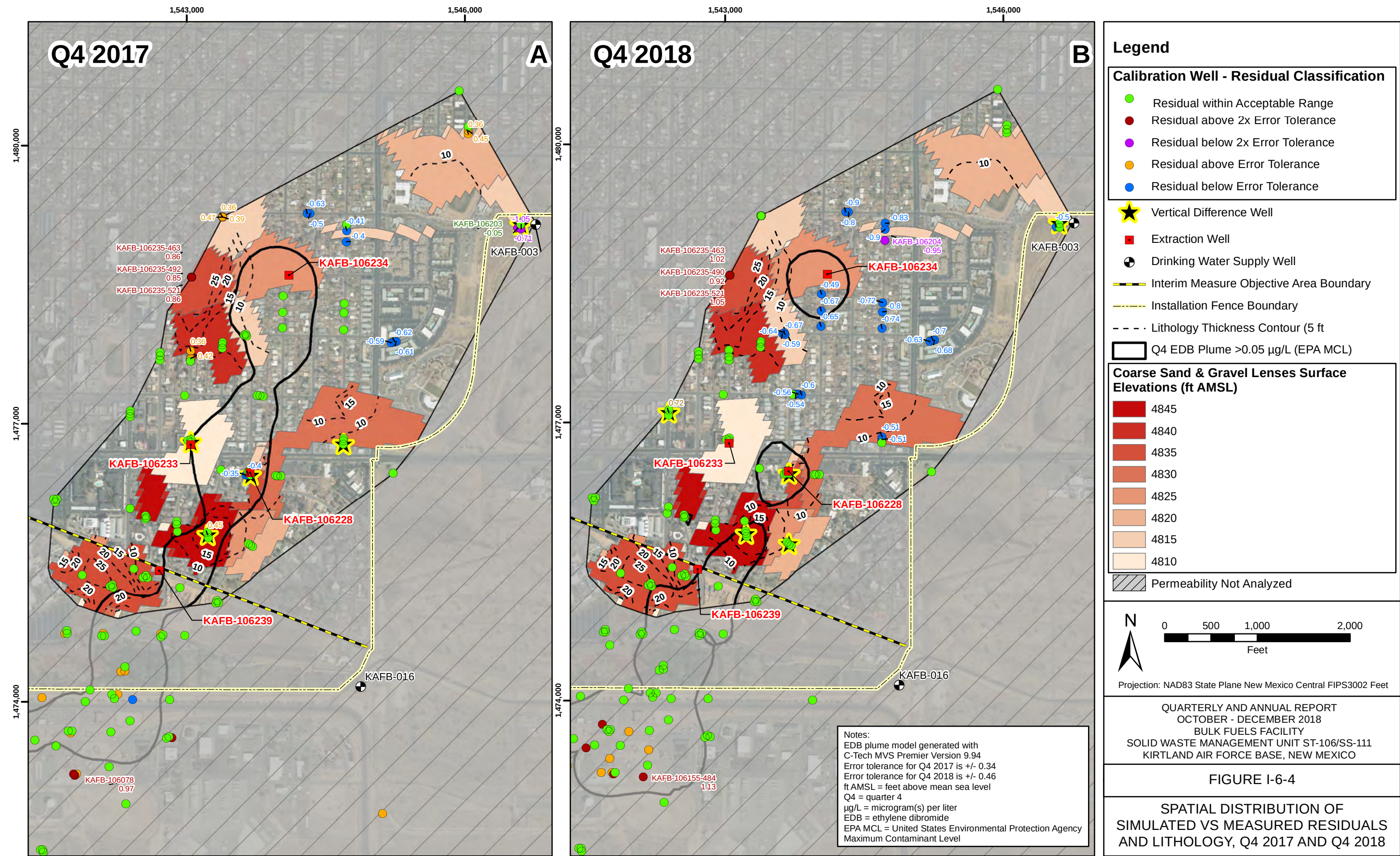
FIGURE I-6-2

Q4 2017 AND Q4 2018 NUMERICAL MODEL
CALIBRATION RESULTS - SIMULATED VS
MEASURED GROUNDWATER LEVELS

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Table 3-4
Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

Well Location ID	Reference Elevation Interval (ft AMSL)	Installation Date	Date Sampled	Screen Interval ^a (ft bgs)	Screen Interval ^a (AMSL)	Dedicated Sampling System (Yes/No)?	Screen Submerged (Yes/No)?	Estimated Pump Intake Depth (ft bags) ^b	Analytical Suite ^c
Groundwater Monitoring Wells									
KAFB-3411	4857	11/10/1999	11/16/2016	461-504	4879-4836	No	Yes	505.31	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106001	4857/4838	11/10/2000	11/10/2016	483-508	4859-4834	No	Yes	487.83	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106002	4857	3/26/2002	10/20/2016	479-504	4861-4836	Yes	Yes	503.99	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106007	4857	11/14/2007	10/31/2016	484-509	4860-4835	Yes	Yes	504.07	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106015	4857/4838	10/14/2008	10/25/2016	485-510	4855-4830	No	Yes	490.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106016	4857	10/17/2008	10/24/2016	475-500	4864-4839	Yes	Yes	494.73	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106019	4857/4838	12/9/2008	11/7/2016	493-518	4859-4834	No	Yes	497.95	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106020	4857	12/19/2008	10/25/2016	482-507	4859-4834	No	Yes	484.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106021	4857/4838	6/7/2009	10/5/2016	458-483	4856-4831	No	Yes	460.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106022	4857/4838	6/12/2009	10/13/2016	462-487	4856-4831	Yes	Yes	483.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106023	4857	6/27/2009	11/10/2016	473-498	4856-4831	No	Yes	475.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106024	4857	8/3/2009	11/2/2016	481-506	4862-4837	Yes	Yes	502.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106025	4857/4838	12/5/2010	10/5/2016	465-490	4852-4827	No	Yes	467.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106027	4857	5/1/2010	10/24/2016	481-501	4864-4844	Yes	Yes	490.59	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106035	4857	8/9/2011	10/27/2016	452-482	4869-4839	No	No	474.35	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106036	4838	8/5/2011	10/27/2016	481-496	4841-4826	No	Yes	483.80	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106037	4838	7/14/2011	11/8/2016	507-522	4815-4800	No	Yes	509.21	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106039	4838	7/26/2011	10/27/2016	508-523	4840-4825	No	Yes	513.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106040	4814	7/19/2011	10/29/2016	530-545	4817-4802	No	Yes	536.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106042	4857	5/31/2011	11/10/2016	469-484	4855-4840	No	Yes	471.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106043	4814	5/18/2011	10/10/2016	543-558	4781-4766	Yes	Yes	550.60	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106044	4838	1/7/2011	10/24/2016	504-519	4842-4827	Yes	Yes	511.70 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106045	4814	1/17/2011	11/14/2016	528-543	4817-4802	No	Yes	535.80 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106046	4857	4/8/2011	10/31/2016	490-510	4863-4843	Yes	Yes	504.95	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106047	4838	4/8/2011	10/31/2016	512-527	4841-4826	Yes	Yes	519.55	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106048	4814	4/8/2011	11/15/2016	535-550	4818-4803	No	Yes	537.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106052	4857	7/25/2011	10/12/2016	449-479	4870-4840	Yes	Yes	472.28	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106053	4838	7/11/2011	10/12/2016	478-493	4841-4826	Yes	Yes	486.10	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106054	4814	6/28/2011	10/12/2016	504-519	4814-4799	Yes	Yes	511.60	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106055	4857	6/24/2011	10/12/2016	465-485	4860-4840	Yes	Yes	479.90	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106057	4838	6/19/2011	10/12/2016	484-499	4841-4826	Yes	Yes	493.05	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106058	4814	6/14/2011	10/13/2016	511-526	4815-4800	Yes	Yes	518.07	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106070	4857	5/23/2011	10/17/2016	460-485	4858-4833	Yes	Yes	474.85	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106071	4814	5/13/2011	10/18/2016	548-563	4773-4758	Yes	Yes	555.43	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106072	4838	5/1/2011	11/3/2016	475-495	4844-4824	No	Yes	477.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106073	4838	5/5/2011	11/14/2016	499-514	4841-4826	No	Yes	501.74	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106074	4814	4/28/2011	11/14/2016	569-584	4772-4757	No	Yes	571.56	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106075	4857	4/17/2011	10/19/2016	480-500	4860-4840	Yes	Yes	494.90	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106082	4857	4/5/2011	11/1/2016	472-492	4863-4843	No	Yes	474.10	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106083	4838	4/15/2011	11/7/2016	495-510	4840-4825	No	Yes	497.62	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106084	4814	4/5/2011	11/1/2016	566-581	4768-4753	No	Yes	571.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106085	4857	7/8/2011	10/17/2016	446-476	4871-4841	Yes	No	468.96	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106086	4838	6/26/2011	11/8/2016	476-491	4842-4827	No	Yes	478.03	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106087	4814	6/19/2011	11/8/2016	546-561	4771-4756	No	Yes	548.01	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106088	4857	6/3/2011	10/17/2016	460-480	4864-4844	Yes	Yes	475.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106089	4838	5/23/2011	10/15/2016	481-496	4843-4828	Yes	Yes	488.99	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106090	4814	5/23/2011	10/18/2016	555-570	4768-4753	Yes	Yes	562.41	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106091 ^e	4857	6/4/2011	10/13/2016 / 12/15/16	454-474	4860-4840	Yes	Yes	468.98	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106092	4838	5/24/2011	10/17/2016	474-489	4840-4825	Yes	Yes	480.35	VOCs, EDB, metals, anions, alkalinity, FP

Table 3-4
Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

Well Location ID	Reference Elevation Interval (ft AMSL)	Installation Date	Date Sampled	Screen Interval ^a (ft bgs)	Screen Interval ^a (AMSL)	Dedicated Sampling System (Yes/No)?	Screen Submerged (Yes/No)?	Estimated Pump Intake Depth (ft bags) ^b	Analytical Suite ^c
KAFB-106093	4814	5/24/2011	10/13/2016	544-559	4770-4755	Yes	Yes	550.38	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106094	4857	6/26/2011	10/20/2016	484-504	4861-4841	Yes	Yes	499.11	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106095	4838	6/24/2011	10/19/2016	504-519	4841-4826	Yes	Yes	511.03	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106096	4814	6/7/2011	10/20/2016	576-591	4769-4754	Yes	Yes	583.75	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106103	4838	6/21/2011	10/18/2016	485-500	4844-4829	Yes	Yes	492.46	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106104	4814	6/15/2011	10/18/2016	510-525	4818-4803	Yes	Yes	517.41	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106105	4838	8/19/2011	11/2/2016	484-499	4838-4823	No	Yes	486.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106106	4857	8/10/2011	10/11/2016	454-484	4868-4838	Yes	Yes	476.17	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106107	4814	8/30/2011	11/10/2016	510-525	4812-4797	No	Yes	512.27	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106212	4814	2/17/2015	10/31/2016	543-558	4779-4764	No	Yes	453.97	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106213	4857	2/10/2015	10/13/2016	448-478	4877-4847	Yes	No	475.30	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106214	4838	3/9/2015	10/17/2016	478-493	4848-4833	Yes	Yes	490.08	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106215	4814	4/28/2015	11/7/2016	547-562	4779-4764	No	Yes	549.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106219	4857	3/12/2015	10/6/2016	463-493	4877-4847	Yes	No	475.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106220	4838	3/12/2015	10/6/2016	493-508	4847-4832	Yes	Yes	490.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106221	4814	6/5/2015	10/6/2016	561-576	4779-4764	Yes	Yes	554.40	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106225	4857	1/19/2015	10/11/2016	450-480	4876-4846	Yes	No	474.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106226	4838	2/3/2015	11/8/2016	480-495	4847-4832	No	Yes	482.14	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106227	4814	5/6/2015	10/11/2016	548-563	4780-4765	Yes	Yes	554.00	VOCs, EDB, metals, anions, alkalinity, FP
Downgradient Proximal Wells									
KAFB-106029	4857	6/4/2011	10/4/2016	451-471	4860-4840	No	Yes	465.35	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106030	4838	5/25/2011	10/4/2016	469-484	4842-4827	Yes	Yes	476.97	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106031	4814	5/25/2011	10/4/2016	496-510	4815-4801	Yes	Yes	502.49	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106032	4857	6/24/2011	10/26/2016	456-476	4862-4842	No	Yes	470.74	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106033	4838	6/24/2011	10/26/2016	477-492	4841-4826	No	Yes	480.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106034	4814	6/24/2011	10/26/2016	502-517	4817-4802	Yes	Yes	509.33	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106049	4857	5/13/2011	10/11/2016	457-477	4859-4839	No	Yes	471.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106050	4838	5/2/2011	10/11/2016	474-489	4842-4827	Yes	Yes	482.57	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106051	4814	4/26/2011	10/11/2016	500-515	4816-4801	Yes	Yes	508.87	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106201	4857	10/4/2012	10/10/2016	487-517	4868-4838	No	Yes	502.00 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106202	4838	9/23/2012	10/10/2016	517-532	4838-4823	Yes	Yes	521.77	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106203	4814	9/9/2012	10/10/2016	620-635	4735-4720	Yes	Yes	627.50 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106204	4857	8/29/2012	10/10/2016	462-492	4871-4841	No	No	477.55 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106205	4838	8/21/2012	10/10/2016	492-507	4841-4826	Yes	Yes	500.00 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106206	4814	8/9/2012	10/10/2016	593-608	4741-4726	Yes	Yes	600.85 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106207	4857	8/22/2012	10/25/2016	473-503	4872-4842	No	No	488.00 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106208	4838	8/16/2012	10/10/2016	503-518	4841-4826	No	Yes	510.50 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106209	4814	8/7/2012	10/25/2016	603-617	4741-4727	No	Yes	610.00 ^d	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106216	4857	2/10/2015	10/13/2016	455-485	4879-4849	Yes	No	475.08	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106217	4838	2/17/2015	11/7/2016	485-500	4849-4834	No	Yes	487.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106218	4814	5/26/2015	10/13/2016	552-567	4781-4766	Yes	Yes	554.58	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106222	4857	1/15/2015	10/12/2016	458-488	4875-4845	Yes	No	475.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106223	4838	2/17/2015	10/12/2016	488-503	4846-4831	Yes	Yes	489.50	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106224	4814	5/15/2015	10/12/2016	555-570	4780-4765	Yes	Yes	554.58	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106231	4857	9/8/2015	10/3/2016	440-475	4887-4852	Yes	No	470.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106232	4814	9/1/2015	10/3/2016	503-518	4824-4809	No	Yes	503.00	VOCs, EDB, metals, anions, alkalinity, FP
Veterans Affairs Proximal Wells									
KAFB-106003	4857	1/25/2003	10/24/2016	476-501	4861-4836	No	Yes	501.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106004	4857	1/4/2006	11/15/2016	484-509	4859-4834	No	Yes	488.77	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106013	4857	9/19/2008	11/9/2016	486-511	4862-4837	No	Yes	491.72	VOCs, EDB, metals, anions, alkalinity, FP

Table 3-4
Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

Well Location ID	Reference Elevation Interval (ft AMSL)	Installation Date	Date Sampled	Screen Interval ^a (ft bgs)	Screen Interval ^a (AMSL)	Dedicated Sampling System (Yes/No)?	Screen Submerged (Yes/No)?	Estimated Pump Intake Depth (ft bags) ^b	Analytical Suite ^c
KAFB-106097	4838	4/27/2011	11/9/2016	506-521	4842-4827	No	Yes	508.14	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106098	4814	4/17/2011	11/9/2016	531-546	4817-4802	No	Yes	533.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106099	4838	5/12/2011	11/2/2016	501-516	4842-4827	No	Yes	503.11	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106100	4814	5/3/2011	10/19/2016	526-541	4817-4802	No	Yes	533.47	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106101	4838	2/21/2011	10/24/2016	496-511	4841-4826	No	Yes	503.22	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106102	4814	3/3/2011	11/1/2016	521-534	4816-4803	No	Yes	526.00	VOCs, EDB, metals, anions, alkalinity, FP
Source Area Wells									
KAFB-106005	4857	1/22/2007	11/15/2016	479-504	4865-4840	No	Yes	484.04	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106006	4857	10/31/2007	11/8/2016	483-508	4866-4841	No	Yes	484.60	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106008	4857	11/21/2007	11/17/2016	486-511	4863-4838	No	Yes	491.10	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106009	4857	11/28/2007	11/3/2016	480-505	4865-4840	No	Yes	485.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106010	4857	12/6/2007	11/16/2016	483-508	4860-4835	No	Yes	485.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106011	4857	9/23/2008	10/24/2016	486-511	4864-4839	Yes	Yes	505.83	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106012R	4857	4/23/2014	11/8/2016	465-495	4877-4847	No	No	495.52	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106014	4857	10/3/2008	11/16/2016	486-511	4861-4836	No	Yes	491.17	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106028	4857	3/19/2012	10/19/2016	486-510	4863-4839	Yes	Yes	506.80	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106059	4857	4/7/2011	11/14/2016	483-503	4862-4842	No	Yes	488.60	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106060	4838	4/16/2011	10/20/2016	503-518	4842-4827	Yes	Yes	510.29	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106061	4814	4/8/2011	10/20/2016	573-588	4772-4757	Yes	Yes	580.20	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106062	4814	3/19/2011	10/24/2016	575-590	4773-4758	Yes	Yes	582.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106063	4838	4/8/2011	11/2/2016	505-520	4844-4829	No	Yes	510.38	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106064	4857	3/24/2011	11/15/2016	485-505	4863-4843	No	Yes	490.18	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106065	4838	5/17/2011	10/19/2016	508-523	4841-4826	Yes	Yes	515.35	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106066	4814	5/16/2011	10/19/2016	575-590	4774-4759	Yes	Yes	583.06	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106067	4857	5/11/2011	10/19/2016	485-505	4863-4843	Yes	Yes	499.99	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106068	4814	5/2/2011	10/17/2016	580-595	4767-4752	Yes	Yes	587.41	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106069	4838	5/1/2011	11/1/2016	506-521	4841-4826	No	Yes	508.08	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106076	4857	4/8/2011	11/21/2016	480-500	4865-4845	No	Yes	482.14	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106077	4838	4/8/2011	11/16/2016	504-519	4841-4826	No	Yes	506.00	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106078	4814	4/8/2011	11/16/2016	573-588	4772-4757	Yes	Yes	581.01	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106079	4857	3/22/2011	10/20/2016	483-503	4864-4844	Yes	Yes	498.78	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106080	4838	4/17/2011	10/20/2016	503-518	4843-4828	Yes	Yes	511.77	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106081	4814	4/16/2011	10/20/2016	574-589	4772-4757	Yes	Yes	582.34	VOCs, EDB, metals, anions, alkalinity, FP
Signal Wells									
KAFB-106017	4857/4838	11/19/2008	10/18/2016	482-507	4857-4832	Yes	Yes	501.56	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106018	4857/4838	11/24/2008	10/18/2016	476-501	4857-4832	Yes	Yes	495.70	VOCs, EDB, metals, anions, alkalinity, FP
KAFB-106038	4857	8/5/2011	11/15/2016	478-508	4870-4840	No	No	509.27	VOCs, EDB, metals, anions, alkalinity, FP

Table 3-4
Groundwater Monitoring Wells Included in Q4 2016 Monitoring Activities

^a Screen interval is rounded to the nearest foot.

^b Portable equipment sampling depths are estimated to the nearest half foot due to slight inaccuracies with the mechanism measuring the pump setting in the field

^c The analytical methods for EDB and VOCs are 8011 and 8260C, respectively. Metals analyses consisted of select total metals (arsenic, calcium, lead, potassium, magnesium, and sodium by analytical method 6020A/6010C and select and dissolved metals (iron and manganese) (6010C). Anions analysis consisted of ammonia by method 4500NH3B/C, bromide by method 300.0A, chloride by method 300.0A, nitrate/nitrite nitrogen by method 353.2, sulfate by method 300.0A, and sulfide by method 4500 S2CF. FP include pH, specific conductivity, dissolved oxygen, oxidation reduction potential, temperature, and turbidity.

^d Pump setting estimated as half-way between top and bottom of screen.

^e Due to fuel contamination at the location of well at KAFB-106091, the well was resampled for EDB, benzene, ethylbenzene, toluene, and total xylenes on December 15, 2016

AMSL = above mean sea level

bgs = below ground surface

EDB = ethylene dibromide

FP = field parameter

ft = foot/feet

ID = identification

Q = quarter

VOC = volatile organic compound

Table 5-8
Horizontal Capture Analysis for the Interim Measure Objective Area

2016 Sample Period	Capture Interval	Plume ^a		Horizontal Capture ^a		Percent Captured	
		Volume (cubic ft.)	Mass (grams)	Volume (cubic ft.)	Mass (grams)	Volume	Mass
Q2	Interval 4857	6.10E+07	5.08E-02	6.06E+07	5.06E-02	99.3%	99.7%
	Interval 4838	3.45E+07	2.70E-02	2.71E+07	2.16E-02	78.6%	80.0%
		9.55E+07	7.77E-02	8.77E+07	7.22E-02	91.8%	92.9%
Q4	Interval 4857	6.70E+07	6.48E-02	6.63E+07	6.45E-02	99.0%	99.5%
	Interval 4838	4.63E+07	3.78E-02	4.39E+07	3.66E-02	94.7%	96.6%
		1.13E+08	1.03E-01	1.10E+08	1.01E-01	97.2%	98.5%

^a Volume and mass value assumes a uniform total porosity of 25% for the aquifer

Table 5-9
Vertical Capture Analysis for the Interim Measure Objective Area

2016 Sample Period	Dissolved EDB Plume Segment North of Ridgecrest Drive SE	Plume ^a		Vertical Capture ^a		Percent Captured	
		Volume (cubic ft.)	Mass (grams)	Volume (cubic ft.)	Mass (grams)	Volume	Mass
Q2	Above Interval 4838 mid-point	7.60E+07	6.42E-02	3.72E+07	3.11E-02	48.9%	48.5%
		7.60E+07	6.42E-02	3.27E+07	2.87E-02	43.0%	44.7%
	Below Interval 4838 mid-point	1.96E+07	1.35E-02	1.14E+07	7.65E-03	58.2%	56.4%
	Total	9.55E+07	7.77E-02	8.12E+07	6.75E-02	85.0%	86.8%
Q4	Above Interval 4838 mid-point	8.24E+07	7.91E-02	4.56E+07	4.37E-02	55.3%	55.2%
		8.24E+07	7.91E-02	1.66E+07	1.29E-02	20.1%	16.3%
	Below Interval 4838 mid-point	3.09E+07	2.36E-02	1.52E+07	1.26E-02	49.3%	53.4%
	Total	1.13E+08	1.03E-01	7.74E+07	6.92E-02	68.3%	67.4%

^a Plume and mass value assumes a uniform total porosity of 25% for the aquifer

Table I-6-1
Horizontal Capture Analysis for the Entire Plume Volume

Appendix E-6

2016 Sample Period	Dissolved EDB Plume Segment	Capture Interval	Plume ^a		Horizontal Capture ^a		Percent Captured	
			Volume (cubic ft.)	Mass (grams)	Volume (cubic ft.)	Mass (grams)	Volume	Mass
Q2	Above Interval 4838 mid-point	Interval 4857	1.15E+08	6.01E-01	7.93E+07	1.77E-01	69.0%	29.4%
	Below Interval 4838 mid-point	Interval 4838	6.43E+07	1.88E-01	2.71E+07	2.16E-02	42.2%	11.5%
	Total		1.79E+08	7.89E-01	1.06E+08	1.98E-01	59.4%	25.1%
Q4	Above Interval 4838 mid-point	Interval 4857	1.16E+08	8.42E-01	7.64E+07	9.16E-02	66.0%	10.9%
	Below Interval 4838 mid-point	Interval 4838	6.87E+07	1.94E-01	5.77E+07	1.00E-01	83.9%	51.7%
	Total		1.85E+08	1.04E+00	1.34E+08	1.92E-01	72.7%	18.5%

^a Plume and mass value assumes a uniform total porosity of 25% for the aquifer

Table I-6-2
Vertical Capture Analysis for the Entire Plume Volume

Appendix E-6

2016 Sample Period	Dissolved EDB Plume Segment	Capture Interval	Plume ^a		Vertical Capture ^a		Percent Captured	
			Volume (cubic ft.)	Mass (grams)	Volume (cubic ft.)	Mass (grams)	Volume	Mass
Q2	Above Interval 4838 mid- point	Interval 4857	1.43E+08	7.47E-01	6.07E+07	1.46E-01	42.6%	19.5%
		Interval 4838	1.43E+08	7.47E-01	5.44E+07	1.34E-01	38.2%	18.0%
	Below Interval 4838 mid- point	Interval 4838	3.65E+07	4.27E-02	1.46E+07	1.03E-02	40.1%	24.0%
	Total		1.79E+08	7.90E-01	1.30E+08	2.91E-01	72.5%	36.8%
Q4	Above Interval 4838 mid- point	Interval 4857	1.43E+08	9.98E-01	6.08E+07	7.05E-02	42.5%	7.1%
		Interval 4838	1.43E+08	9.98E-01	4.31E+07	5.52E-01	30.1%	55.3%
	Below Interval 4838 mid- point	Interval 4838	4.16E+07	4.01E-02	1.71E+07	1.46E-02	41.0%	36.4%
	Total		1.85E+08	1.04E+00	1.21E+08	6.37E-01	65.5%	61.4%

^a Plume and mass value assumes a uniform total porosity of 25% for the aquifer

Table 3-14
Comparison of Analytical Results between Bennett Pumps and Passive Samplers in Source Area Wells, Q4 2017

		Well Location ID:		KAFB-106005			KAFB-106006			KAFB-106008		
			Sample Date:	10/23/2017	10/18/2017		10/19/2017			10/20/2017		
		Field Sample ID:		GW005-174	GW005-174D		GW006-174	GW006-174D		GW008-174	GW008-174D	
		Sample Collection Method:		Bennett Pump	DMS ^a		Bennett Pump	DMS ^a		Bennett Pump	DMS ^a	
Parameter	Analytical Method	Analyte	Project Screening Level ^d	Result ^b	Result ^b	Relative Percent Difference ^c	Result ^b	Result ^b	Relative Percent Difference ^c	Result ^b	Result ^b	Relative Percent Difference ^c
EDB	Method SW8011 (µg/L)	1,2-dibromoethane	0.05	0.32	0.29	10	0.014 J	0.21	175	4.1	2.5	48
VOCs	Method SW8260C (µg/L)	Benzene	5	230	300	26	37	27	31	2300	2300	0
		Ethylbenzene	700	29	35	19	3	3	0	120	190	45
		Toluene	750	4	3	29	7	0.6 J	168	1700	2000	16
		Xylenes, Total	620	63	75	17	2	< 1 U	NA	310	490	45
Total Metals	Method SW6010C (mg/L)	Calcium	NS	250	243	3	35.2	35.0	1	121	138	13
		Iron, dissolved	1.0	0.164 J	0.189 J	14	0.390 J	0.610	44	3.58	3.55 J	1
		Magnesium	NS	39.7	38.5	3	5.46	5.51	1	20.0	22.5	12
		Manganese, dissolved	0.2	0.136	0.0905	40	0.702	0.798	13	5.80	6.80	16
		Potassium	NS	5.42	5.22	4	2.08	2.01	3	3.31	3.54	7
		Sodium	NS	80.9	77.8	4	22.5	22.1	2	34.8	36.7	5
	Method SW6020A (mg/L)	Arsenic	0.01	< 0.0020 U	< 0.0020 U	NA	0.0010 J	< 0.0020 U	NA	0.00080 J	< 0.0020 U	NA
		Lead	0.015	0.00015 J	< 0.00025 U	NA	< 0.00025 U	< 0.00025 U	NA	< 0.00025 U	0.00030 J	NA
Anions	Method E300.0 (mg/L)	Bromide	NS	3.8	3.5	8	< 2.5 U	< 2.5 U	NA	1.9 J	2.0 J	5
		Chloride	250	211 J	217	3	9.7	9.3	4	16.0	16.8	5
		Sulfate	250	480	529	10	33.8	33.7	0	3.0 J	2.6 J	14
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	0.50 J	0.062 J	156	0.10 J	0.15 J	40	< 0.10 U	< 0.10 U	NA
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	167 J	134	22	107	106	1	344	371	8
		Alkalinity, carbonate (as CaCO3)	NS	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA
		Alkalinity, total (as CaCO3)	NS	167 J	134	22	107	106	1	344	371	8

Table 3-14
Comparison of Analytical Results between Bennett Pumps and Passive Samplers in Source Area Wells, Q4 2017

		Well Location ID:		KAFB-106014			KAFB-106059					
			Sample Date:	10/20/2017	10/19/2017		10/19/2017					
		Field Sample ID:		GW014-174	GW014-174D		GW059-174	GW059-174D		GW059-574	GW059-574D	
		Sample Collection Method:		Bennett Pump	DMS ^a		Bennett Pump	DMS ^a		Bennett Pump	DMS ^a	
Parameter	Analytical Method	Analyte	Project Screening Level ^d	Result ^b	Result ^b	Relative Percent Difference ^c	Result ^b	Result ^b	Relative Percent Difference ^c	Result ^b	Result ^b	Relative Percent Difference ^c
EDB	Method SW8011 (µg/L)	1,2-dibromoethane	0.05	0.85	4.2	133	5.9	1.0	142	6.4	1.0	146
VOCs	Method SW8260C (µg/L)	Benzene	5	160	310	64	15000	3700	121	16000	3600	127
		Ethylbenzene	700	67	45	39	870	86	164	890	86	165
		Toluene	750	170	2	195	18000	6600	93	18000	6300	96
		Xylenes, Total	620	140	2	194	3000	1700	55	3000	1600	61
Total Metals	Method SW6010C (mg/L)	Calcium	NS	67.2	54.8	20	138	113	20	137	138	1
		Iron, dissolved	1.0	< 0.200 U	< 0.200 U	NA	7.38	5.98	21	7.28	5.98	20
		Magnesium	NS	10.2	8.83	14	24.7	20.3	20	24.5	24.7	1
		Manganese, dissolved	0.2	1.19	1.91	46	4.07	3.45	16	4.08	3.49	16
		Potassium	NS	2.79	2.32	18	3.99	3.47	14	3.94	3.99	1
		Sodium	NS	30.4	25.6	17	41.1	34.8	17	40.6	42.1	4
	Method SW6020A (mg/L)	Arsenic	0.01	< 0.0020 U	< 0.0020 U	NA	0.0024 J	0.0020 J	18	0.0023 J	0.0017 J	30
		Lead	0.015	< 0.00025 U	< 0.00025 U	NA	< 0.00025 U	< 0.00025 U	NA	< 0.00025 U	< 0.00025 U	NA
Anions	Method E300.0 (mg/L)	Bromide	NS	1.8 J	1.6 J	12	2.3 J	2.2 J	4	2.3 J	2.0 J	14
		Chloride	250	55.0	23.7	80	61.4	52.6	15	61.0	47.4	25
		Sulfate	250	21.0	17.1	20	< 5.0 U	< 5.0 U	NA	< 5.0 U	3.0 J	NA
	Method E353.2 (mg/L)	Nitrate/Nitrite Nitrogen	10 ^e	< 0.10 U	0.79 J	NA	< 0.10 U	< 0.10 U	NA	< 0.10 U	< 0.10 U	NA
Alkalinity	Method SM2320B (mg/L)	Alkalinity, bicarbonate (as CaCO3)	NS	165	168	2	403	382	5	406	372	9
		Alkalinity, carbonate (as CaCO3)	NS	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA	< 5.0 U	< 5.0 U	NA
		Alkalinity, total (as CaCO3)	NS	165	168	2	403	382	5	406	372	9

Table 3-14
Comparison of Analytical Results between Bennett Pumps and Passive Samplers in Source Area Wells, Q4 2017

^a Sample aliquots were collected using dual-membrane samplers.

^b Nondetect results are reported less than the LOD.

^c RPD is calculated as (A-B) / (A+B/2) X 100 where the Bennett pump result is A and the DMS result is B.

-- = sample not analyzed for this parameter

DMS = dual-membrane sampler

EDB = ethylene dibromide (1,2-dibromoethane)

LOD = limit of detection

LOQ = limit of quantitation

NA = RPD is not calculated if both results are nondetect or if one or both of the results are below the LOQ.

RPD = relative percent difference

VOC = volatile organic compound

Shaded = RPD value exceeds 35 percent field duplicate sample precision criteria (Kirtland AFB Quality Assurance Project Plan for Bulk Fuels Facility Expansion of the Dissolved-Phase Plume Groundwater Treatment System Design Solid Waste Management Unit ST-106/SS-111 (USAF 2016)

Qualifiers:

J = Qualifier denotes the analyte was positively identified, but the associated numerical value is estimated.

U = Qualifier denotes the analyte is not detected above the detection limit.

UJ = The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Table 3-15
Comparison of Analytical Results between YSI and Aqua-Troll Parameter Readings for Source Area Wells, Q4 2017

		Well Location ID:		KAFB-106005			KAFB-106006			KAFB-106008			KAFB-106014		
		Sample Date:		10/23/2017	10/18/2017		10/19/2017	10/19/2017		10/20/2017	10/18/2017		10/20/2017	10/19/2017	
		Sample Depth (ft bgs):		483			486			490			490		
		Reference Elevation Interval		4857			4857			4857			4857		
Parameter	Analyte	NMAC NMWQCC ^a	Project Screening Level ^b	YSI	Aqua-troll	Relative Percent Difference	YSI	Aqua-troll	Relative Percent Difference	YSI	Aqua-troll	Relative Percent Difference	YSI	Aqua-troll	Relative Percent Difference
Field Parameters	Turbidity	NS	NS	10.9	3.63	100.1	2.65	1.43	59.8	9.07	1.5	143.2	3.66	3.00	19.8
	Temperature (°C)	NS	NS	18.3	19.77	7.7	19.9	20.43	2.6	17.50	19.82	12.4	18.80	19.68	4.6
	DO (mg/L)	NS	NS	0.6	0.07	156.9	2.94	.64	128.5	0.28	0.07	120.0	0.32	0.20	46.2
	Spec Cond (µS/cm)	NS	NS	2463	1590.6	43.0	334.5	329.46	1.5	882.00	967.87	9.3	618.00	467.64	27.7
	pH (S.U.)	NS	NS	7.06	7.03	0.4	7.57	7.51	0.8	6.95	6.89	0.9	7.44	7.16	3.8
	ORP (mV)	NS	NS	-154.90	-270.9	54.5	-161.10	-169.50	5.1	-113.30	-152.10	29.2	-210.60	-194.30	8.1

Table 3-15
Comparison of Analytical Results between YSI and Aqua-Troll Parameter Readings for Source Area Wells, Q4 2017

		Well Location ID:		KAFB-106059		
		Sample Date:		10/19/2017	10/19/2017	
		Sample Depth (ft bgs):		488		
		Reference Elevation Interval		4857		
Parameter	Analyte	NMAC NMWQCC ^a	Project Screening Level ^b	YSI	Aqua-troll	Relative Percent Difference
Field Parameters	Turbidity	NS	NS	1.66	273.15	197.6
	Temperature (°C)	NS	NS	20.2	19.99	1.0
	DO (mg/L)	NS	NS	0.58	.77	28.1
	Spec Cond (µS/cm)	NS	NS	1016	896.17	12.5
	pH (S.U.)	NS	NS	7.24	6.78	6.6
	ORP (mV)	NS	NS	-134.8	-77.5	54.0

Table 3-15
Comparison of Analytical Results between YSI and Aqua-Troll Parameter Readings for Source Area Wells, Q4 2017

^a NMWQCC numeric standards per the NMAC Title 20.6.2.3101A, Standards for Groundwater of 10,000 mg/L Total Dissolved Solids Concentration or Less (NMAC 2004). For metals,

^b The project screening level was selected to satisfy the requirements of the Kirtland AFB Hazardous Waste Permit Number NM9570024423 as the lowest of (1) NMWQCC numeric standard or (2) EPA MCL. If no NMQWCC standard or MCL exists for any analyte, then the project screening level will be the EPA RSL.

µg/L = microgram per liter

µS/cm = microsiemens per centimeter

°C = degree Celsius

EPA = U.S. Environmental Protection Agency

ID = identification

NMAC = New Mexico Administrative Code

NMWQCC = New Mexico Water Quality Control Commission

REG = normal field sample

Spec Cond = Specific Conductivity

S.U. = standard unit

Table 3-1
Groundwater Monitoring Program

Location ID	1st Quarter (January-March)	2nd Quarter Semiannual (April-June)	3rd Quarter (July-September)	4th Quarter Annual (October-December)	Former Well Designation and Monitoring Well Objective ^{h,g}
Newly Added Wells ^a					
KAFB-106041 ^{b,d}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106149-484 ^{b,e}	EDB, metals anions, alkalinity	BTEX, EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106151-484 ^{b,e}	EDB, metals anions, alkalinity	BTEX, EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106152-484 ^{b,e}	EDB, metals anions, alkalinity	BTEX, EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106153-484 ^{b,e}	EDB, metals anions, alkalinity	BTEX, EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106235-463 ^{b,f}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106235-492 ^{b,f}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106235-521 ^{b,f}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106236-461 ^{b,f}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106236-490 ^{b,f}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	NA
KAFB-106236-519 ^{b,f}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106240-449 ^{b,g}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106241-428 ^{b,g}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106242-418 ^{b,g}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106243-425 ^{b,g}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106244-445 ^{b,g}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
KAFB-106245-460 ^{b,g}	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, metals anions, alkalinity	EDB, VOCs, metals anions, alkalinity	NA
Groundwater Monitoring Wells ^a					
KAFB-106001	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106002	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106003	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106004	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106005 ^b	BTEX, EDB, metals, anions, alkalinity	BTEX, EDB, metals, anions, alkalinity	BTEX, EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	Source Area
KAFB-106006	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106007	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106008	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106009 ^b	BTEX, EDB, metals, anions, alkalinity	BTEX, EDB, metals, anions, alkalinity	BTEX, EDB, metals, anions, alkalinity	EDB, VOCs, metals, anions, alkalinity	Source Area
KAFB-106010	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106011	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106012R	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, metals, anions, alkalinity, FP	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106013	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106014	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106015 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106016	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106017	None	BTEX, Naphthalene, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Signal
KAFB-106018	None	BTEX, Naphthalene, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Signal
KAFB-106019	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106020	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106021 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106022 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106023 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106024	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106025 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106026 ^c	--	--	--	--	Groundwater Monitoring
KAFB-106027	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106028	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106029 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106030 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal

Table 3-1
Groundwater Monitoring Program

Location ID	1st Quarter (January-March)	2nd Quarter Semiannual (April-June)	3rd Quarter (July-September)	4th Quarter Annual (October-December)	Former Well Designation and Monitoring Well Objective ^{h,g}
Groundwater Monitoring Wells^a					
KAFB-106031 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106032 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106033 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106034 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106035 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106036 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106037 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106038	None	BTEX, Naphthalene, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Signal
KAFB-106039	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106040	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106042 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106043 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106044	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106045	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106046	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106047	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106048	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106049 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106050 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106051 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106052 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106053 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106054 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106055 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106057 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106058 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106059	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106060	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106061	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106062	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106063	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106064	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106065	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106066	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106067	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106068	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106069	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106070 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106071 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106072 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106073	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106074	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106075	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106076	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106077	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106078	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106079 ^b	None	BTEX, EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Source Area
KAFB-106080	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area

Table 3-1
Groundwater Monitoring Program

Location ID	1st Quarter (January-March)	2nd Quarter Semiannual (April-June)	3rd Quarter (July-September)	4th Quarter Annual (October-December)	Former Well Designation and Monitoring Well Objective ^{h,g}
Groundwater Monitoring Wells^a					
KAFB-106081	None	BTEX, EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Source Area
KAFB-106082	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106083	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106084	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106085 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106086 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106087 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106088 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106089 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106090 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106091 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106092 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106093 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106094	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106095 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106096	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring
KAFB-106097	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106098	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106099	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106100	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106101	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106102	BTEX, EDB, FP	BTEX, EDB, metals, anions, alkalinity, FP	BTEX, EDB, FP	EDB, VOCs, metals, anions, alkalinity, FP	VA Proximal
KAFB-106103 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106104 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106105 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106106 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106107 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106201 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106202 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106203 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106204 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106205 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106206 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106207 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106208 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106209 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106212 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106213 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106214 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106215 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106216 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106217 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106218 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106219 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106220 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106221 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106222 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal

Table 3-1
Groundwater Monitoring Program

Location ID	1st Quarter (January-March)	2nd Quarter Semiannual (April-June)	3rd Quarter (July-September)	4th Quarter Annual (October-December)	Former Well Designation and Monitoring Well Objective ^{h,g}
Groundwater Monitoring Wells ^a					
KAFB-106223 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106224 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106225 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106226 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106227 ^b	None	EDB, metals, anions, alkalinity	None	EDB, VOCs, metals, anions, alkalinity	Groundwater Monitoring
KAFB-106230 ^c	--	--	--	--	Groundwater Monitoring
KAFB-106231 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-106232 ^b	EDB	EDB, metals, anions, alkalinity	EDB	EDB, VOCs, metals, anions, alkalinity	Downgradient Proximal
KAFB-3411	None	EDB, metals, anions, alkalinity, FP	None	EDB, VOCs, metals, anions, alkalinity, FP	Groundwater Monitoring

Table 3-1
Groundwater Monitoring Program

^a The groundwater monitoring network consists of 149 wells that are currently sampled under Solid Waste Management Unit ST106/SS-111. Select wells are identified for additional or more frequent monitoring of risk-driving constituents. Metals analysis consists of select total metals (arsenic, calcium, lead, potassium, magnesium, and sodium) and select dissolved metals (iron and manganese). Anions analysis consists of bromide, chloride, nitrate/nitrite nitrogen, and sulfate. Field parameters include pH, specific conductivity, dissolved oxygen, oxidation reduction potential, temperature, and turbidity.

^b Well sampled with passive sampling methodology; field parameter measurements are not representative and therefore are not collected.

^c Well no longer sampled due to safety concerns.

^d Newly added to the groundwater monitoring network in fourth quarter 2017.

^e Newly added to the groundwater monitoring network in first quarter 2018.

^f Newly installed groundwater monitoring well that was completed in fourth quarter 2016.

^g Newly installed groundwater monitoring well that was completed in third quarter 2018.

^h In previous reports, groundwater monitoring wells were designated based on their location related to groundwater gradient and the EDB plume or on their location, i.e. “downgradient”, “source area”, etc. However, due to the changing regional groundwater gradient (see Quarter 2 2018 Quarterly Monitoring Report [USACE 2018]), these designations are not always appropriate. To simplify and more accurately represent dynamic hydrologic conditions, all groundwater monitorings wells will be designated simply as “groundwater monitoring well” after completing a baseline sampling of four quarters. Prior to the baseline sampling, the wells will be designated as "newly added".

^g Monitoring Well Objective:

Newly Added Wells—Newly added wells can include both existing wells that are added to the GWM network as well as newly installed wells. Newly added GWM wells require a minimum of four consecutive quarters of baseline full-suite analytical sampling before receiving a designation that determines the long-term sampling regime. These wells have been added to define the plume boundaries and provide additional water table monitoring due to the rising groundwater elevation.

Source Area Wells—Primarily located in the BFF south of Randolph Road SE and proximal to the spill site on-Base. Sampled during Q2 and Q4. These wells monitor the higher concentrations of dissolved-phase plumes on-Base.

Downgradient Proximal Wells—Located north of Ridgecrest Drive SE surrounding the historical EDB plume to the west, north, and east into the distal portion of the GWM network. Analytical data for these wells have been historically below the maximum contaminant level (MCL) for EDB. Sampled every quarter. These wells assist in plume boundary definition.

Veterans Affairs (VA) Proximal Wells—Three sets of nested wells located between the historical EDB plume south of Ridgecrest Drive SE and the Raymond G. Murphy VA Medical Center as a means to detect any potential contaminant migration towards the VA medical campus. Sampled every quarter. These wells provide additional wellhead protection monitoring for the VA supply well.

Signal Wells—Three wells located along the south side of Ridgecrest Drive SE to monitor benzene, toluene, ethylbenzene, and total xylenes (BTEX) and provide early indication if the benzene plume is migrating from the source area into the interim measure target area capture zone created by the groundwater extraction wells. Sampled during Q2 and Q4.

Groundwater Monitoring Wells—Primarily location north of Ridgecrest Drive SE within the historical footprint of the EDB plume. Analytical data from these wells serve to define the volume and mass of the EDB plume throughout the GWM network. Sampled in Q2 and Q4.

BTEX = benzene, toluene, ethylbenzene, and total xylenes

EDB = ethylene dibromide

FP = field parameter

ID = identification

NA = not applicable

VOC = volatile organic compound

USACE. 2018. *Quarterly Monitoring Report April-June 2018, Bulk Fuels Facility, SWMU ST-106/SS-111*. Prepared by EA Engineering, Science, and Technology, Inc., PBC for the USACE–Albuquerque District under USACE Contract No. W912WR-12-D-0006. September.

Table I-6-1
Estimated Water Level in Ridgecrest Well Field Wells, Q4 2018

Well	Q4 2017 Water-Level (ft above NAVD88)	Q4 2018 Water-Level (ft above NAVD88)	Distance to Trumbull (miles)	Distance to Del Sol Divider (miles)	Data Type
Montessa Site-B	4877.2	4878.7	na	na	Measured
Jerry Cline-C	4877.3	4877.3	na	na	Measured
Del Sol Divider-3	4880.8	4883.3	na	na	Measured
Trumbull-1A	4870.5	4872.2	na	na	Measured
Ridgecrest 3	4867.3	4868.7	0.70	2.94	Estimated
Ridgecrest 4	4865.4	4866.7	0.73	2.22	Estimated
Ridgecrest 5	4869.2	4870.8	0.27	2.40	Estimated

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988

Table I-6-2
Summary of KAFB-106228 Aquifer Test Analysis

Well ID	Radial Distance to the Pumping Well (r, ft)	Reference Elevation Interval (ft amsl)	Maximum Displacement During Pumping (ft)	Drawdown or Recovery	Aquifer Transmissivity (T, ft ² /day)	Hydraulic Conductivity (Kh, ft/day)	Specific Yield (Sy, dimensionless)	Storativity (S, dimensionless)	Specific Storage (Ss, per ft)	Vertical to Horizontal Anisotropy Ratio (VANI, dimensionless)
KAFB-106035	58	4857	0.56	Drawdown (Pumping)	52,000	170	0.29	0.63	2.1E-03	0.003
				Recovery (Agarwal plot)	53,000	180	0.11	0.75	2.5E-03	0.001
KAFB-106213	275	4857	0.27	Drawdown (Pumping)	59,000	200	0.04	0.034	1.1E-04	0.02
KAFB-10622	321	4857	0.21	Drawdown (Pumping)	79,000	260	0.16	0.15	5.0E-04	0.002
				Recovery (Agarwal plot)	94,000	310	0.25	0.094	3.1E-04	0.01
KAFB-106036	40	4838	0.66	Drawdown (Pumping)	44,000	150	0.25	0.20	6.7E-04	0.05
				Recovery (Agarwal plot)	45,000	150	0.16	0.26	8.7E-04	0.03
KAFB-106214	296	4838	0.24	Recovery (Agarwal plot)	87,000	290	0.013	0.046	1.5E-04	0.002
KAFB-106212	24	4814	0.97	Drawdown (Pumping)	17,000	60	0.05	0.0009	3.0E-06	0.01
				Recovery (Agarwal plot)	15,000	50	0.11	0.0022	7.3E-06	0.04
KAFB-106037	32	4838	1.15	Drawdown (Pumping)	31,000	100	0.10	0.013	4.3E-05	0.03
				Recovery (Agarwal plot)	30,000	100	0.10	0.014	4.7E-05	0.03
KAFB-106215	330	4814	0.20	Recovery (Agarwal plot)	52,000	170	0.0046	0.0058	1.9E-05	0.02

Table modified from Aquifer Test Report for Groundwater Extraction Well KAFB-106228, Bulk Fuels Facility, Solid Waste Management Unit ST-106/SS-111, Kirtland Air Force Base, New Mexico (USACE, 2016).

amsl = above mean sea level

ft = foot/feet

ID = identification

USACE = U.S. Army Corps of Engineers

USACE. 2016. Aquifer Test Report for Groundwater Extraction Well KAFB-106228, Bulk Fuels Facility, Solid Waste Management Unit ST-106/SS-111, Kirtland Air Force Base, New Mexico. Prepared by CB&I Federal Services for the USACE-Albuquerque District under USACE Contract No. W912DY-10-D-0014. July.

Table I-6-3
Model Simulation Comparison Q4 2017 and Q4 2018

Horizontal Hydraulic Conductivity (ft/day)	2017 Q4 Simulation Results	Vertical Anisotropy				
		0.001	0.005	0.01	0.03	0.05
80	RMSD	NA	NA	NA	0.442	NA
	NRMSD				13.0%	
90	RMSD	NA	NA	NA	0.373	NA
	NRMSD				10.9%	
100	RMSD	0.450	0.375	0.351	0.335	0.334
	NRMSD	13.2%	11.0%	10.3%	9.8%	9.8%
	KAFB-106037	-0.67	-0.50	-0.40	-0.25	-0.19
	KAFB-106092	-0.58	-0.40	-0.29	-0.12	-0.05
	KAFB-106203	-0.36	-0.36	-0.36	-0.35	-0.35
110	RMSD	0.409	0.344	0.326	0.318	0.319
	NRMSD	12.0%	10.1%	9.6%	9.3%	9.4%
	KAFB-106037	-0.41	-0.27	-0.18	-0.04	0.01
	KAFB-106092	-0.29	-0.14	-0.05	0.11	0.17
	KAFB-106203	-0.19	-0.19	-0.19	-0.18	-0.18
120	RMSD	0.388	0.332	0.320	0.317	0.320
	NRMSD	11.4%	9.7%	9.4%	9.3%	9.4%
	KAFB-106037	-0.20	-0.07	0.00	0.13	0.18
	KAFB-106092	-0.06	0.07	0.16	0.29	0.36
	KAFB-106203	-0.05	-0.05	-0.05	-0.04	-0.04
130	RMSD	0.382	0.333	0.325	0.326	0.329
	NRMSD	11.2%	9.8%	9.5%	9.6%	9.6%
	KAFB-106037	-0.02	0.09	0.16	0.27	0.31
	KAFB-106092	0.14	0.25	0.33	0.45	0.51
	KAFB-106203	0.07	0.07	0.07	0.07	0.07
140	RMSD	0.386	0.342	0.336	0.340	0.343
	NRMSD	11.3%	10.0%	9.9%	10.0%	10.1%
	KAFB-106037	0.13	0.23	0.29	0.39	0.43
	KAFB-106092	0.31	0.41	0.47	0.59	0.64
	KAFB-106203	0.17	0.17	0.17	0.17	0.18
150	RMSD	0.396	0.355	0.351	0.356	0.359
	NRMSD	11.6%	10.4%	10.3%	10.4%	10.5%
	KAFB-106037	0.27	0.35	0.41	0.50	0.54
	KAFB-106092	0.46	0.54	0.60	0.71	0.76
	KAFB-106203	0.26	0.26	0.26	0.26	0.26
175	RMSD	NA	NA	NA	0.394	NA
	NRMSD				11.6%	
200	RMSD	NA	NA	NA	0.432	NA
	NRMSD				12.7%	
250	RMSD	NA	NA	NA	0.491	NA
	NRMSD				14.4%	
300	RMSD	NA	NA	NA	0.534	NA
	NRMSD				15.7%	

Horizontal Hydraulic Conductivity (ft/day)	2018 Q4 Simulation Results	Vertical Anisotropy				
		0.001	0.005	0.01	0.03	0.05
80	RMSD	NA	NA	NA	0.545	NA
	NRMSD				11.9%	
90	RMSD	NA	NA	NA	0.513	NA
	NRMSD				11.2%	
100	RMSD	0.545	0.499	0.484	0.466	0.461
	NRMSD	11.9%	10.9%	10.5%	10.2%	10.0%
	KAFB-106037	-0.39	-0.35	-0.30	-0.21	-0.17
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	-0.07	-0.06	-0.06	-0.06	-0.06
110	RMSD	0.518	0.466	0.451	0.436	0.433
	NRMSD	11.3%	10.1%	9.8%	9.5%	9.4%
	KAFB-106037	-0.19	-0.17	-0.12	-0.05	-0.01
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.10	0.10	0.10	0.11	0.11
120	RMSD	0.503	0.445	0.431	0.419	0.416
	NRMSD	10.9%	9.7%	9.4%	9.1%	9.1%
	KAFB-106037	-0.03	-0.01	0.02	0.09	0.13
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.24	0.24	0.24	0.24	0.24
130	RMSD	0.496	0.434	0.421	0.410	0.407
	NRMSD	10.8%	9.5%	9.2%	8.9%	8.9%
	KAFB-106037	0.11	0.12	0.15	0.21	0.24
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.36	0.36	0.36	0.36	0.36
140	RMSD	0.496	0.429	0.416	0.406	0.404
	NRMSD	10.8%	9.3%	9.1%	8.8%	8.8%
	KAFB-106037	0.23	0.23	0.25	0.31	0.34
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.46	0.46	0.46	0.46	0.46
150	RMSD	0.499	0.429	0.416	0.407	0.405
	NRMSD	10.9%	9.3%	9.0%	8.9%	8.8%
	KAFB-106037	0.34	0.32	0.35	0.40	0.42
	KAFB-106092	NA	NA	NA	NA	NA
	KAFB-106203	0.55	0.55	0.55	0.55	0.55
175	RMSD	NA	NA	NA	0.411	NA
	NRMSD				8.9%	
200	RMSD	NA	NA	NA	0.431	NA
	NRMSD				9.4%	
250	RMSD	NA	NA	NA	0.468	NA
	NRMSD				10.2%	
300	RMSD	NA	NA	NA	0.497	NA
	NRMSD				10.8%	

Calibration Criteria: NRMSD less than 10%; absolute simulated head error at extraction well drawdown monitoring wells less than 0.34 feet (2017 Q4) and 0.46 feet (2018 Q4).

Bold text indicates value meets calibration criteria

Light shading indicates simulation meets all calibration criteria

Dark shading identifies best-fit simulation (used to estimate capture)



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-15842-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
10/19/2020 1:50:38 PM

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LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

* Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Project Manager I
10/19/2020 1:50:38 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Job ID: 410-15842-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-15842-1

Comments

No additional comments.

Receipt

The samples were received on 10/2/2020 10:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.3° C, 0.4° C and 1.9° C.

GC/MS VOA

Method 8260C DOD: The response for Hexachlorobutadiene in the continuing calibration verification (CCV) marginally exceeds the DoD acceptance criteria on batch 410-53580. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW044-204 (410-15842-1), GW044-604 (410-15842-2), TB204-01 (410-15842-3), GW016-204 (410-15842-4), GW027-204 (410-15842-5), TB204-02 (410-15842-6), GW011-204 (410-15842-7) and TB204-03 (410-15842-8). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The continuing calibration verification (CCV) associated with batch 410-51829 exhibited % difference of > 30% for the following analyte(s) Chloride; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW044-204

Lab Sample ID: 410-15842-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	22	Q D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	31	D Q	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	37		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.9		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.2		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.9		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW044-604

Lab Sample ID: 410-15842-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	24	Q D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	30	D Q	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	35		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	5.2		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.2		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.9		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-01

Lab Sample ID: 410-15842-3

No Detections.

Client Sample ID: GW016-204

Lab Sample ID: 410-15842-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	J Q D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	27	D Q	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	39		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.0		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.2		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	20		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0011	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW016-204 (Continued)

Lab Sample ID: 410-15842-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.088	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW027-204

Lab Sample ID: 410-15842-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	J Q D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	29	D Q	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	39		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	5.9		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.2		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00087	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.6		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-02

Lab Sample ID: 410-15842-6

No Detections.

Client Sample ID: GW011-204

Lab Sample ID: 410-15842-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.38	J	1.0	0.50	0.30	ug/L	1		8260C DOD	Total/NA
Acetone	8.3	J M	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Isopropylbenzene	6.8		5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Methylene Chloride	0.41	J M	1.0	0.50	0.30	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	1.1	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.018	J M	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	98	Q D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	120	D Q	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	110		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	16		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.4		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	37		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.015		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.00071	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	160		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	160		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.8		1.0	0.90	0.40	mg/L	10		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: TB204-03

Lab Sample ID: 410-15842-8

☐ No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW044-204

Lab Sample ID: 410-15842-1

Date Collected: 10/01/20 13:13

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:10	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 17:10	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:10	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:10	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:10	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:10	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:10	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 17:10	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 17:10	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 17:10	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 17:10	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 17:10	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 17:10	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 17:10	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:10	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 17:10	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 17:10	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW044-204

Lab Sample ID: 410-15842-1

Date Collected: 10/01/20 13:13

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:10	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:10	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:10	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 17:10	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:10	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:10	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 17:10	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:10	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		81 - 118		10/13/20 17:10	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 17:10	1
Dibromofluoromethane (Surr)	99		80 - 119		10/13/20 17:10	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 17:10	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/14/20 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136	10/09/20 23:50	10/14/20 03:53	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/09/20 23:50	10/14/20 03:53	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/07/20 21:13	5
Chloride	22	Q D	20	15	10	mg/L		10/07/20 21:31	50
Sulfate	31	D Q	5.0	4.5	1.5	mg/L		10/07/20 21:13	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	37		0.20	0.15	0.096	mg/L		10/05/20 16:00	1
Magnesium	4.9		0.10	0.075	0.040	mg/L		10/05/20 16:00	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/09/20 14:31	1
Sodium	21		1.0	0.50	0.24	mg/L		10/05/20 16:00	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/12/20 15:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW044-204

Lab Sample ID: 410-15842-1

Date Collected: 10/01/20 13:13

Matrix: Water

Date Received: 10/02/20 10:20

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/12/20 15:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L		10/05/20 20:12	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/05/20 20:12	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/05/20 21:22	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 21:22	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/05/20 21:22	1
Nitrate Nitrite as N	1.9		0.10	0.090	0.040	mg/L		10/13/20 13:25	1

Client Sample ID: GW044-604

Lab Sample ID: 410-15842-2

Date Collected: 10/01/20 13:13

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:32	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 17:32	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:32	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:32	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:32	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 17:32	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 17:32	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 17:32	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 17:32	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 17:32	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 17:32	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW044-604

Lab Sample ID: 410-15842-2

Date Collected: 10/01/20 13:13

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 17:32	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:32	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 17:32	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 17:32	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:32	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:32	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:32	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 17:32	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:32	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:32	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 17:32	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:32	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		81 - 118		10/13/20 17:32	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 17:32	1
Dibromofluoromethane (Surr)	103	M	80 - 119		10/13/20 17:32	1
Toluene-d8 (Surr)	99		89 - 112		10/13/20 17:32	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/14/20 04:10	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW044-604

Lab Sample ID: 410-15842-2

Date Collected: 10/01/20 13:13

Matrix: Water

Date Received: 10/02/20 10:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136	10/09/20 23:50	10/14/20 04:10	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/09/20 23:50	10/14/20 04:10	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/07/20 22:26	5
Chloride	24	Q D	20	15	10	mg/L		10/07/20 22:44	50
Sulfate	30	D Q	5.0	4.5	1.5	mg/L		10/07/20 22:26	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	35		0.20	0.15	0.096	mg/L		10/05/20 16:30	1
Magnesium	5.2		0.10	0.075	0.040	mg/L		10/05/20 16:30	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/05/20 16:30	1
Sodium	21		1.0	0.50	0.24	mg/L		10/05/20 16:30	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/12/20 15:30	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/12/20 15:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/05/20 20:14	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/05/20 20:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/05/20 21:29	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 21:29	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/05/20 21:29	1
Nitrate Nitrite as N	1.9		0.10	0.090	0.040	mg/L		10/13/20 13:29	1

Client Sample ID: TB204-01

Lab Sample ID: 410-15842-3

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:51	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 13:51	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 13:51	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 13:51	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 13:51	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: TB204-01

Lab Sample ID: 410-15842-3

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:51	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 13:51	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:51	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 13:51	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 13:51	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 13:51	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 13:51	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 13:51	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 13:51	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 13:51	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:51	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 13:51	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 13:51	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 13:51	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:51	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 13:51	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 13:51	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:51	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 13:51	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: TB204-01

Lab Sample ID: 410-15842-3

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 13:51	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:51	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		81 - 118		10/13/20 13:51	1
4-Bromofluorobenzene (Surr)	98		85 - 114		10/13/20 13:51	1
Dibromofluoromethane (Surr)	100		80 - 119		10/13/20 13:51	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 13:51	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/14/20 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	106		46 - 136	10/09/20 23:50	10/14/20 04:27	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/09/20 23:50	10/14/20 04:27	1

Client Sample ID: GW016-204

Lab Sample ID: 410-15842-4

Date Collected: 10/01/20 16:01

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:55	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 17:55	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:55	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:55	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:55	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:55	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:55	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 17:55	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW016-204

Lab Sample ID: 410-15842-4

Date Collected: 10/01/20 16:01

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 17:55	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 17:55	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 17:55	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 17:55	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 17:55	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 17:55	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:55	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 17:55	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 17:55	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:55	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 17:55	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 17:55	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 17:55	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 17:55	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 17:55	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 17:55	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 17:55	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		81 - 118					10/13/20 17:55	1
4-Bromofluorobenzene (Surr)	96		85 - 114					10/13/20 17:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW016-204

Lab Sample ID: 410-15842-4

Date Collected: 10/01/20 16:01

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 119		10/13/20 17:55	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 17:55	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/14/20 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	124		46 - 136	10/09/20 23:50	10/14/20 04:43	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/09/20 23:50	10/14/20 04:43	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/07/20 23:02	5
Chloride	16	J Q D	20	15	10	mg/L		10/07/20 23:20	50
Sulfate	27	D Q	5.0	4.5	1.5	mg/L		10/07/20 23:02	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	39		0.20	0.15	0.096	mg/L		10/05/20 16:34	1
Magnesium	6.0		0.10	0.075	0.040	mg/L		10/05/20 16:34	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/05/20 16:34	1
Sodium	20		1.0	0.50	0.24	mg/L		10/05/20 16:34	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/07/20 16:08	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/07/20 16:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0011	J	0.0020	0.0016	0.00068	mg/L		10/05/20 20:16	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/05/20 20:16	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	130		8.0	6.0	8.0	mg/L		10/05/20 21:42	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 21:42	1
Total Alkalinity as CaCO3 to pH 4.5	130		8.0	6.0	8.0	mg/L		10/05/20 21:42	1
Nitrate Nitrite as N	0.088	J	0.10	0.090	0.040	mg/L		10/13/20 13:30	1

Client Sample ID: GW027-204

Lab Sample ID: 410-15842-5

Date Collected: 10/01/20 14:24

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 18:17	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW027-204

Lab Sample ID: 410-15842-5

Date Collected: 10/01/20 14:24

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 18:17	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 18:17	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 18:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 18:17	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 18:17	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 18:17	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 18:17	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 18:17	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 18:17	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 18:17	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 18:17	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 18:17	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 18:17	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 18:17	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 18:17	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 18:17	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 18:17	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 18:17	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 18:17	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 18:17	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW027-204

Lab Sample ID: 410-15842-5

Date Collected: 10/01/20 14:24

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 18:17	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:17	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 18:17	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 18:17	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:17	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		81 - 118		10/13/20 18:17	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 18:17	1
Dibromofluoromethane (Surr)	101		80 - 119		10/13/20 18:17	1
Toluene-d8 (Surr)	99		89 - 112		10/13/20 18:17	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/14/20 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	106		46 - 136	10/09/20 23:50	10/14/20 05:00	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/09/20 23:50	10/14/20 05:00	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/07/20 23:38	5
Chloride	16	J Q D	20	15	10	mg/L		10/08/20 00:33	50
Sulfate	29	D Q	5.0	4.5	1.5	mg/L		10/07/20 23:38	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	39		0.20	0.15	0.096	mg/L		10/05/20 16:37	1
Magnesium	5.9		0.10	0.075	0.040	mg/L		10/05/20 16:37	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/05/20 16:37	1
Sodium	22		1.0	0.50	0.24	mg/L		10/05/20 16:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/07/20 10:52	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/07/20 10:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW027-204

Lab Sample ID: 410-15842-5

Date Collected: 10/01/20 14:24

Matrix: Water

Date Received: 10/02/20 10:20

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00087	J	0.0020	0.0016	0.00068	mg/L		10/05/20 20:23	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/05/20 20:23	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/05/20 20:28	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 20:28	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/05/20 20:28	1
Nitrate Nitrite as N	1.6		0.10	0.090	0.040	mg/L		10/13/20 13:32	1

Client Sample ID: TB204-02

Lab Sample ID: 410-15842-6

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:13	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 14:13	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 14:13	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 14:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 14:13	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:13	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 14:13	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:13	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 14:13	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 14:13	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 14:13	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 14:13	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 14:13	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 14:13	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 14:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: TB204-02

Lab Sample ID: 410-15842-6

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:13	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 14:13	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 14:13	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 14:13	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:13	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 14:13	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 14:13	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:13	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 14:13	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 14:13	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:13	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		81 - 118		10/13/20 14:13	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/13/20 14:13	1
Dibromofluoromethane (Surr)	100		80 - 119		10/13/20 14:13	1
Toluene-d8 (Surr)	99		89 - 112		10/13/20 14:13	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/14/20 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	93		46 - 136	10/09/20 23:50	10/14/20 05:17	1
1,1,2,2-Tetrachloroethane (2C)	87		46 - 136	10/09/20 23:50	10/14/20 05:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW011-204

Lab Sample ID: 410-15842-7

Date Collected: 10/01/20 11:00

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 18:39	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 18:39	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 18:39	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 18:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 18:39	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,2-Dichloroethane	0.38	J	1.0	0.50	0.30	ug/L		10/13/20 18:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 18:39	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 18:39	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 18:39	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		10/13/20 18:39	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/13/20 18:39	1
Acetone	8.3	J M	20	2.0	0.70	ug/L		10/13/20 18:39	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 18:39	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 18:39	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 18:39	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 18:39	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 18:39	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 18:39	1
Isopropylbenzene	6.8		5.0	0.50	0.20	ug/L		10/13/20 18:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW011-204

Lab Sample ID: 410-15842-7

Date Collected: 10/01/20 11:00

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 18:39	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Methylene Chloride	0.41	J M	1.0	0.50	0.30	ug/L		10/13/20 18:39	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 18:39	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 18:39	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
sec-Butylbenzene	1.1	J	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 18:39	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 18:39	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 18:39	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 18:39	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		81 - 118		10/13/20 18:39	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/13/20 18:39	1
Dibromofluoromethane (Surr)	99		80 - 119		10/13/20 18:39	1
Toluene-d8 (Surr)	99		89 - 112		10/13/20 18:39	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.018	J M	0.029	0.019	0.0096	ug/L		10/14/20 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	117	M	46 - 136	10/09/20 23:50	10/14/20 05:33	1
1,1,2,2-Tetrachloroethane (2C)	102		46 - 136	10/09/20 23:50	10/14/20 05:33	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/08/20 01:09	50
Chloride	98	Q D	20	15	10	mg/L		10/08/20 01:09	50
Sulfate	120	D Q	50	45	15	mg/L		10/08/20 01:09	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	110		0.20	0.15	0.096	mg/L		10/05/20 16:40	1
Magnesium	16		0.10	0.075	0.040	mg/L		10/05/20 16:40	1
Potassium	3.4		0.50	0.38	0.20	mg/L		10/05/20 16:40	1
Sodium	37		1.0	0.50	0.24	mg/L		10/05/20 16:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/07/20 10:49	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW011-204

Lab Sample ID: 410-15842-7

Date Collected: 10/01/20 11:00

Matrix: Water

Date Received: 10/02/20 10:20

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.015		0.010	0.0052	0.0031	mg/L		10/07/20 10:49	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00071	J	0.0020	0.0016	0.00068	mg/L		10/05/20 20:25	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/05/20 20:25	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	160		8.0	6.0	8.0	mg/L		10/05/20 21:35	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 21:35	1
Total Alkalinity as CaCO ₃ to pH 4.5	160		8.0	6.0	8.0	mg/L		10/05/20 21:35	1
Nitrate Nitrite as N	2.8		1.0	0.90	0.40	mg/L		10/13/20 13:33	10

Client Sample ID: TB204-03

Lab Sample ID: 410-15842-8

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:29	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 13:29	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 13:29	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 13:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 13:29	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:29	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 13:29	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:29	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 13:29	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 13:29	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 13:29	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 13:29	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 13:29	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 13:29	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: TB204-03

Lab Sample ID: 410-15842-8

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 13:29	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:29	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 13:29	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 13:29	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 13:29	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 13:29	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 13:29	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 13:29	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 13:29	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 13:29	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 13:29	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 13:29	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		10/13/20 13:29	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 13:29	1
Dibromofluoromethane (Surr)	100		80 - 119		10/13/20 13:29	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 13:29	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/14/20 05:50	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: TB204-03

Lab Sample ID: 410-15842-8

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136	10/09/20 23:50	10/14/20 05:50	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/09/20 23:50	10/14/20 05:50	1

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Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-15842-1	GW044-204	108	97	99	100
410-15842-2	GW044-604	111	97	103 M	99
410-15842-3	TB204-01	108	98	100	100
410-15842-4	GW016-204	108	96	100	100
410-15842-5	GW027-204	111	97	101	99
410-15842-6	TB204-02	107	96	100	99
410-15842-7	GW011-204	108	100	99	99
410-15842-8	TB204-03	106	97	100	100
LCS 410-53580/6	Lab Control Sample	105	99	99	102
LCS 410-53580/7	Lab Control Sample	106	97	99	100
MB 410-53580/9	Method Blank	107	97	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-15842-1	GW044-204	103	95
410-15842-2	GW044-604	99	96
410-15842-3	TB204-01	106	100
410-15842-4	GW016-204	124	100
410-15842-5	GW027-204	106	97
410-15842-6	TB204-02	93	87
410-15842-7	GW011-204	117 M	102
410-15842-8	TB204-03	103	97
LCS 410-52945/2-A	Lab Control Sample	107	98
LCSD 410-52945/3-A	Lab Control Sample Dup	105	100
MB 410-52945/1-A	Method Blank	108	98

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-53580/9

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 11:12	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 11:12	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 11:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 11:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 11:12	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 11:12	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 11:12	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 11:12	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 11:12	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 11:12	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 11:12	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 11:12	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 11:12	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/13/20 11:12	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-53580/9

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 11:12	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 11:12	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 11:12	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 11:12	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 11:12	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		81 - 118		10/13/20 11:12	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 11:12	1
Dibromofluoromethane (Surr)	100		80 - 119		10/13/20 11:12	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 11:12	1

Lab Sample ID: LCS 410-53580/6

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.7		ug/L		94	78 - 124
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	21.1		ug/L		106	80 - 119
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125
1,1-Dichloroethene	20.0	20.3		ug/L		102	71 - 131
1,1-Dichloropropene	20.0	19.9		ug/L		99	79 - 125
1,2,3-Trichlorobenzene	20.0	17.6		ug/L		88	69 - 129
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	69 - 130
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	19.5		ug/L		97	77 - 121
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 119
1,2-Dichloroethane	20.0	20.8		ug/L		104	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-53580/6

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.0		ug/L		105	78 - 122
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		99	75 - 124
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 119
1,3-Dichloropropane	20.0	20.0		ug/L		100	80 - 119
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	79 - 118
2,2-Dichloropropane	20.0	18.4		ug/L		92	60 - 139
2-Butanone	150	152	M	ug/L		101	56 - 143
2-Chlorotoluene	20.0	19.0		ug/L		95	79 - 122
2-Hexanone	100	98.0		ug/L		98	57 - 139
4-Chlorotoluene	20.0	19.3		ug/L		96	78 - 122
4-Methyl-2-pentanone	100	100		ug/L		100	67 - 130
Acetone	150	173		ug/L		115	39 - 160
Acrolein	150	157		ug/L		105	39 - 155
Acrylonitrile	100	102		ug/L		102	63 - 135
Benzene	20.0	20.1		ug/L		100	42 - 138
Bromobenzene	20.0	19.2		ug/L		96	80 - 120
Bromochloromethane	20.0	18.8		ug/L		94	78 - 123
Bromodichloromethane	20.0	20.2		ug/L		101	79 - 125
Bromoform	20.0	16.5		ug/L		82	66 - 130
Bromomethane	20.0	15.8		ug/L		79	53 - 141
Carbon disulfide	20.0	21.0		ug/L		105	64 - 133
Carbon tetrachloride	20.0	18.6		ug/L		93	72 - 136
Chlorobenzene	20.0	19.8		ug/L		99	82 - 118
Chloroethane	20.0	14.4		ug/L		72	60 - 138
Chloroform	20.0	20.3		ug/L		101	79 - 124
Chloromethane	20.0	12.4		ug/L		62	50 - 139
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	78 - 123
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	75 - 124
Dibromochloromethane	20.0	19.7		ug/L		98	74 - 126
Dibromomethane	20.0	20.7		ug/L		104	79 - 123
Dichlorodifluoromethane	20.0	13.0		ug/L		65	32 - 152
Ethylbenzene	20.0	19.8		ug/L		99	79 - 121
Hexachlorobutadiene	20.0	15.2		ug/L		76	66 - 134
Isopropylbenzene	20.0	19.5		ug/L		98	72 - 131
m&p-Xylene	40.0	39.8		ug/L		100	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	21.2		ug/L		106	74 - 124
Naphthalene	20.0	19.5		ug/L		97	61 - 128
n-Butylbenzene	20.0	19.4		ug/L		97	75 - 128
N-Propylbenzene	20.0	20.2		ug/L		101	76 - 126
o-Xylene	20.0	19.8		ug/L		99	78 - 122
p-Isopropyltoluene	20.0	19.7		ug/L		99	77 - 127
sec-Butylbenzene	20.0	19.8		ug/L		99	77 - 126
Styrene	20.0	20.3		ug/L		101	78 - 123
tert-Butylbenzene	20.0	19.1		ug/L		95	78 - 124
Tetrachloroethene	20.0	19.3		ug/L		96	74 - 129
Toluene	20.0	19.7		ug/L		98	80 - 121
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	75 - 124
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-53580/6

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.6		ug/L		98	79 - 123
Trichlorofluoromethane	20.0	15.6		ug/L		78	65 - 141
Vinyl chloride	20.0	14.2		ug/L		71	58 - 137
Xylenes, Total	60.0	59.6		ug/L		99	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: LCS 410-53580/7

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	99.1		ug/L		99	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-52945/1-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52945

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/13/20 22:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	108		46 - 136	10/09/20 23:50	10/13/20 22:18	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/09/20 23:50	10/13/20 22:18	1

Lab Sample ID: LCS 410-52945/2-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.113		ug/L		88	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	107		46 - 136
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-52945/3-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.116		ug/L		90	60 - 140	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-51829/4

Matrix: Water

Analysis Batch: 51829

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/07/20 09:46	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/07/20 09:46	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/07/20 09:46	1

Lab Sample ID: LCS 410-51829/3

Matrix: Water

Analysis Batch: 51829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.02		mg/L		94	90 - 110
Chloride	3.00	2.82		mg/L		94	90 - 110
Sulfate	7.50	7.01		mg/L		93	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-51053/1-A

Matrix: Water

Analysis Batch: 52000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51053

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/07/20 15:04	1
Manganese	0.00721	J	0.010	0.0052	0.0031	mg/L		10/07/20 15:04	1

Lab Sample ID: LCS 410-51053/2-A

Matrix: Water

Analysis Batch: 52078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.460		mg/L		114	87 - 115
Manganese	0.0200	0.0245	Q	mg/L		123	90 - 114

Lab Sample ID: MB 410-51159/1-A

Matrix: Water

Analysis Batch: 51878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51159

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/07/20 09:52	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-51159/1-A

Matrix: Water

Analysis Batch: 51878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51159

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/07/20 09:52	1

Lab Sample ID: LCS 410-51159/2-A

Matrix: Water

Analysis Batch: 51878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.435		mg/L		108	87 - 115
Manganese	0.0200	0.0220		mg/L		110	90 - 114

Lab Sample ID: MB 410-52662/1-A

Matrix: Water

Analysis Batch: 53364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52662

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/12/20 14:40	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/12/20 14:40	1

Lab Sample ID: LCS 410-52662/2-A

Matrix: Water

Analysis Batch: 53364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.426		mg/L		106	87 - 115
Manganese	0.0200	0.0225		mg/L		113	90 - 114

Lab Sample ID: MB 410-50673/1-A

Matrix: Water

Analysis Batch: 51013

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 50673

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/05/20 15:11	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/05/20 15:11	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/05/20 15:11	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/05/20 15:11	1

Lab Sample ID: LCS 410-50673/2-A

Matrix: Water

Analysis Batch: 51013

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 50673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.419		mg/L		105	87 - 113
Magnesium	0.200	0.207		mg/L		104	85 - 113
Potassium	5.60	5.64		mg/L		101	86 - 114
Sodium	2.00	2.07		mg/L		104	87 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-50674/1-A
Matrix: Water
Analysis Batch: 52837

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 50674

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/09/20 12:08	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/09/20 12:08	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/09/20 12:08	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/09/20 12:08	1

Lab Sample ID: LCS 410-50674/2-A
Matrix: Water
Analysis Batch: 51257

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 50674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.411		mg/L		103	87 - 113
Magnesium	0.200	0.179		mg/L		89	85 - 113
Sodium	2.00	2.00		mg/L		100	87 - 115

Lab Sample ID: LCS 410-50674/2-A
Matrix: Water
Analysis Batch: 52856

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 50674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.74		mg/L		102	86 - 114

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-50675/1-A
Matrix: Water
Analysis Batch: 51271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50675

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/05/20 19:30	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/05/20 19:30	1

Lab Sample ID: LCS 410-50675/2-A
Matrix: Water
Analysis Batch: 51271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0643		mg/L		107	84 - 116
Lead	0.0300	0.0309		mg/L		103	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-51427/14
Matrix: Water
Analysis Batch: 51427

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 19:54	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 19:54	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 19:54	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-51427/15

Matrix: Water

Analysis Batch: 51427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106

Lab Sample ID: 410-15842-5 DU

Matrix: Water

Analysis Batch: 51427

Client Sample ID: GW027-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	120		117		mg/L		0.4	5
Carbonate Alkalinity as CaCO ₃	6.0	U	6.0	U	mg/L		NC	5
Total Alkalinity as CaCO ₃ to pH 4.5	120		117		mg/L		0.4	5

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-53860/52

Matrix: Water

Analysis Batch: 53860

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/13/20 13:12	1

Lab Sample ID: LCS 410-53860/53

Matrix: Water

Analysis Batch: 53860

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.55		mg/L		102	90 - 110

Lab Sample ID: 410-15842-1 MS

Matrix: Water

Analysis Batch: 53860

Client Sample ID: GW044-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.9		1.00	2.82		mg/L		91	90 - 110

Lab Sample ID: 410-15842-1 DU

Matrix: Water

Analysis Batch: 53860

Client Sample ID: GW044-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	1.9		1.76		mg/L		8	10

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

GC/MS VOA

Analysis Batch: 53580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total/NA	Water	8260C DOD	
410-15842-2	GW044-604	Total/NA	Water	8260C DOD	
410-15842-3	TB204-01	Total/NA	Water	8260C DOD	
410-15842-4	GW016-204	Total/NA	Water	8260C DOD	
410-15842-5	GW027-204	Total/NA	Water	8260C DOD	
410-15842-6	TB204-02	Total/NA	Water	8260C DOD	
410-15842-7	GW011-204	Total/NA	Water	8260C DOD	
410-15842-8	TB204-03	Total/NA	Water	8260C DOD	
MB 410-53580/9	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-53580/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-53580/7	Lab Control Sample	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 52945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total/NA	Water	8011	
410-15842-2	GW044-604	Total/NA	Water	8011	
410-15842-3	TB204-01	Total/NA	Water	8011	
410-15842-4	GW016-204	Total/NA	Water	8011	
410-15842-5	GW027-204	Total/NA	Water	8011	
410-15842-6	TB204-02	Total/NA	Water	8011	
410-15842-7	GW011-204	Total/NA	Water	8011	
410-15842-8	TB204-03	Total/NA	Water	8011	
MB 410-52945/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-52945/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-52945/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 53963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total/NA	Water	8011	52945
410-15842-2	GW044-604	Total/NA	Water	8011	52945
410-15842-3	TB204-01	Total/NA	Water	8011	52945
410-15842-4	GW016-204	Total/NA	Water	8011	52945
410-15842-5	GW027-204	Total/NA	Water	8011	52945
410-15842-6	TB204-02	Total/NA	Water	8011	52945
410-15842-7	GW011-204	Total/NA	Water	8011	52945
410-15842-8	TB204-03	Total/NA	Water	8011	52945
MB 410-52945/1-A	Method Blank	Total/NA	Water	8011	52945
LCS 410-52945/2-A	Lab Control Sample	Total/NA	Water	8011	52945
LCSD 410-52945/3-A	Lab Control Sample Dup	Total/NA	Water	8011	52945

HPLC/IC

Analysis Batch: 51829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total/NA	Water	EPA 300.0 R2.1	
410-15842-1	GW044-204	Total/NA	Water	EPA 300.0 R2.1	
410-15842-2	GW044-604	Total/NA	Water	EPA 300.0 R2.1	
410-15842-2	GW044-604	Total/NA	Water	EPA 300.0 R2.1	
410-15842-4	GW016-204	Total/NA	Water	EPA 300.0 R2.1	
410-15842-4	GW016-204	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

HPLC/IC (Continued)

Analysis Batch: 51829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-5	GW027-204	Total/NA	Water	EPA 300.0 R2.1	
410-15842-5	GW027-204	Total/NA	Water	EPA 300.0 R2.1	
410-15842-7	GW011-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-51829/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-51829/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 50673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-2	GW044-604	Total Recoverable	Water	3005A	
410-15842-4	GW016-204	Total Recoverable	Water	3005A	
410-15842-5	GW027-204	Total Recoverable	Water	3005A	
410-15842-7	GW011-204	Total Recoverable	Water	3005A	
MB 410-50673/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-50673/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 50674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total Recoverable	Water	3005A	
MB 410-50674/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-50674/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 50675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total/NA	Water	3020A	
410-15842-2	GW044-604	Total/NA	Water	3020A	
410-15842-4	GW016-204	Total/NA	Water	3020A	
410-15842-5	GW027-204	Total/NA	Water	3020A	
410-15842-7	GW011-204	Total/NA	Water	3020A	
MB 410-50675/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-50675/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 51013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-2	GW044-604	Total Recoverable	Water	6010C	50673
410-15842-4	GW016-204	Total Recoverable	Water	6010C	50673
410-15842-5	GW027-204	Total Recoverable	Water	6010C	50673
410-15842-7	GW011-204	Total Recoverable	Water	6010C	50673
MB 410-50673/1-A	Method Blank	Total Recoverable	Water	6010C	50673
LCS 410-50673/2-A	Lab Control Sample	Total Recoverable	Water	6010C	50673

Prep Batch: 51053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-4	GW016-204	Dissolved	Water	Non-Digest Prep	
MB 410-51053/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-51053/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 51159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-5	GW027-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Metals (Continued)

Prep Batch: 51159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-7	GW011-204	Dissolved	Water	Non-Digest Prep	
MB 410-51159/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-51159/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 51257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total Recoverable	Water	6010C	50674
LCS 410-50674/2-A	Lab Control Sample	Total Recoverable	Water	6010C	50674

Analysis Batch: 51271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total/NA	Water	6020A	50675
410-15842-2	GW044-604	Total/NA	Water	6020A	50675
410-15842-4	GW016-204	Total/NA	Water	6020A	50675
410-15842-5	GW027-204	Total/NA	Water	6020A	50675
410-15842-7	GW011-204	Total/NA	Water	6020A	50675
MB 410-50675/1-A	Method Blank	Total/NA	Water	6020A	50675
LCS 410-50675/2-A	Lab Control Sample	Total/NA	Water	6020A	50675

Analysis Batch: 51878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-5	GW027-204	Dissolved	Water	6010C	51159
410-15842-7	GW011-204	Dissolved	Water	6010C	51159
MB 410-51159/1-A	Method Blank	Total/NA	Water	6010C	51159
LCS 410-51159/2-A	Lab Control Sample	Total/NA	Water	6010C	51159

Analysis Batch: 52000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-4	GW016-204	Dissolved	Water	6010C	51053
MB 410-51053/1-A	Method Blank	Total/NA	Water	6010C	51053

Analysis Batch: 52078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-51053/2-A	Lab Control Sample	Total/NA	Water	6010C	51053

Prep Batch: 52662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Dissolved	Water	Non-Digest Prep	
410-15842-2	GW044-604	Dissolved	Water	Non-Digest Prep	
MB 410-52662/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-52662/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 52837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-50674/1-A	Method Blank	Total Recoverable	Water	6010C	50674

Analysis Batch: 52856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total Recoverable	Water	6010C	50674
LCS 410-50674/2-A	Lab Control Sample	Total Recoverable	Water	6010C	50674

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Metals

Analysis Batch: 53364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Dissolved	Water	6010C	52662
410-15842-2	GW044-604	Dissolved	Water	6010C	52662
MB 410-52662/1-A	Method Blank	Total/NA	Water	6010C	52662
LCS 410-52662/2-A	Lab Control Sample	Total/NA	Water	6010C	52662

General Chemistry

Analysis Batch: 51427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total/NA	Water	2320B-2011	
410-15842-2	GW044-604	Total/NA	Water	2320B-2011	
410-15842-4	GW016-204	Total/NA	Water	2320B-2011	
410-15842-5	GW027-204	Total/NA	Water	2320B-2011	
410-15842-7	GW011-204	Total/NA	Water	2320B-2011	
MB 410-51427/14	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-51427/15	Lab Control Sample	Total/NA	Water	2320B-2011	
410-15842-5 DU	GW027-204	Total/NA	Water	2320B-2011	

Analysis Batch: 53860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15842-1	GW044-204	Total/NA	Water	353.2	
410-15842-2	GW044-604	Total/NA	Water	353.2	
410-15842-4	GW016-204	Total/NA	Water	353.2	
410-15842-5	GW027-204	Total/NA	Water	353.2	
410-15842-7	GW011-204	Total/NA	Water	353.2	
MB 410-53860/52	Method Blank	Total/NA	Water	353.2	
LCS 410-53860/53	Lab Control Sample	Total/NA	Water	353.2	
410-15842-1 MS	GW044-204	Total/NA	Water	353.2	
410-15842-1 DU	GW044-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW044-204

Lab Sample ID: 410-15842-1

Date Collected: 10/01/20 13:13

Matrix: Water

Date Received: 10/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 17:10	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 03:53	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	51829	10/07/20 21:13	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	51829	10/07/20 21:31	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			52662	10/09/20 07:38	UAMX	ELLE
Dissolved	Analysis	6010C		1	53364	10/12/20 15:27	UCIG	ELLE
Total Recoverable	Prep	3005A			50674	10/05/20 03:26	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	51257	10/05/20 16:00	ULJC	ELLE
Total Recoverable	Prep	3005A			50674	10/05/20 03:26	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	52856	10/09/20 14:31	UPJE	ELLE
Total/NA	Prep	3020A			50675	10/05/20 03:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	51271	10/05/20 20:12	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	51427	10/05/20 21:22	JB	ELLE
Total/NA	Analysis	353.2		1	53860	10/13/20 13:25	KGQ6	ELLE

Client Sample ID: GW044-604

Lab Sample ID: 410-15842-2

Date Collected: 10/01/20 13:13

Matrix: Water

Date Received: 10/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 17:32	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 04:10	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	51829	10/07/20 22:26	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	51829	10/07/20 22:44	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			52662	10/09/20 07:38	UAMX	ELLE
Dissolved	Analysis	6010C		1	53364	10/12/20 15:30	UCIG	ELLE
Total Recoverable	Prep	3005A			50673	10/05/20 03:21	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	51013	10/05/20 16:30	UCIG	ELLE
Total/NA	Prep	3020A			50675	10/05/20 03:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	51271	10/05/20 20:14	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	51427	10/05/20 21:29	JB	ELLE
Total/NA	Analysis	353.2		1	53860	10/13/20 13:29	KGQ6	ELLE

Client Sample ID: TB204-01

Lab Sample ID: 410-15842-3

Date Collected: 10/01/20 17:20

Matrix: Water

Date Received: 10/02/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 13:51	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 04:27	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW016-204

Date Collected: 10/01/20 16:01

Date Received: 10/02/20 10:20

Lab Sample ID: 410-15842-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 17:55	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 04:43	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	51829	10/07/20 23:02	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	51829	10/07/20 23:20	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			51053	10/05/20 18:36	UJLA	ELLE
Dissolved	Analysis	6010C		1	52000	10/07/20 16:08	UCIG	ELLE
Total Recoverable	Prep	3005A			50673	10/05/20 03:21	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	51013	10/05/20 16:34	UCIG	ELLE
Total/NA	Prep	3020A			50675	10/05/20 03:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	51271	10/05/20 20:16	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	51427	10/05/20 21:42	JB	ELLE
Total/NA	Analysis	353.2		1	53860	10/13/20 13:30	KGQ6	ELLE

Client Sample ID: GW027-204

Date Collected: 10/01/20 14:24

Date Received: 10/02/20 10:20

Lab Sample ID: 410-15842-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 18:17	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 05:00	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	51829	10/07/20 23:38	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	51829	10/08/20 00:33	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			51159	10/06/20 05:05	UJL8	ELLE
Dissolved	Analysis	6010C		1	51878	10/07/20 10:52	ULJC	ELLE
Total Recoverable	Prep	3005A			50673	10/05/20 03:21	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	51013	10/05/20 16:37	UCIG	ELLE
Total/NA	Prep	3020A			50675	10/05/20 03:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	51271	10/05/20 20:23	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	51427	10/05/20 20:28	JB	ELLE
Total/NA	Analysis	353.2		1	53860	10/13/20 13:32	KGQ6	ELLE

Client Sample ID: TB204-02

Date Collected: 10/01/20 17:20

Date Received: 10/02/20 10:20

Lab Sample ID: 410-15842-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 14:13	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 05:17	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Client Sample ID: GW011-204

Date Collected: 10/01/20 11:00

Date Received: 10/02/20 10:20

Lab Sample ID: 410-15842-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 18:39	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 05:33	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	51829	10/08/20 01:09	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			51159	10/06/20 05:05	UJL8	ELLE
Dissolved	Analysis	6010C		1	51878	10/07/20 10:49	ULJC	ELLE
Total Recoverable	Prep	3005A			50673	10/05/20 03:21	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	51013	10/05/20 16:40	UCIG	ELLE
Total/NA	Prep	3020A			50675	10/05/20 03:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	51271	10/05/20 20:25	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	51427	10/05/20 21:35	JB	ELLE
Total/NA	Analysis	353.2		10	53860	10/13/20 13:33	KGQ6	ELLE

Client Sample ID: TB204-03

Date Collected: 10/01/20 17:20

Date Received: 10/02/20 10:20

Lab Sample ID: 410-15842-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 13:29	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 05:50	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-15842-1	GW044-204	Water	10/01/20 13:13	10/02/20 10:20	
410-15842-2	GW044-604	Water	10/01/20 13:13	10/02/20 10:20	
410-15842-3	TB204-01	Water	10/01/20 17:20	10/02/20 10:20	
410-15842-4	GW016-204	Water	10/01/20 16:01	10/02/20 10:20	
410-15842-5	GW027-204	Water	10/01/20 14:24	10/02/20 10:20	
410-15842-6	TB204-02	Water	10/01/20 17:20	10/02/20 10:20	
410-15842-7	GW011-204	Water	10/01/20 11:00	10/02/20 10:20	
410-15842-8	TB204-03	Water	10/01/20 17:20	10/02/20 10:20	

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Eurofins Lancaster Laboratories Env, LLC



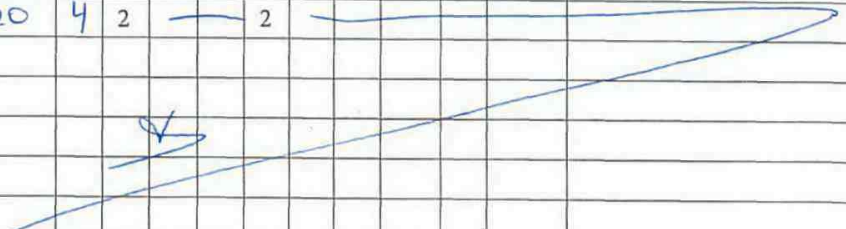
410-15842 Chain of Custody

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-044-204		
PROJECT NAME Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER 62595DM01 6360401		LABORATORY NAME AND CONTACT Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020		QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE ST106/SS111		Lab PO Number: 44600 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (380.00)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW044-204	10-1-2020	1313	10	3			2	1	1*	1	1	1			
2	GW044-604	10-1-2020	1313	10	3			2	1	1*	1	1	1			
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
TB204-01																
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5850												
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME					
Printed Name and Signature: D. Schmeelk				10-1-2020	1930	Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature: Nicole Reiff				10/2/20	1020					

qcm

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 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-01							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295 14890		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258									
		ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (9011)	Total As, Pb, Cd, Cr, Ni, Mn (6020A, 6010C)	Dissolved Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (333.2)	COMMENTS
1	TB204-01	10-1-2020	1720	4	2	—	2	—	—	—	—	—	
2													
3													
4													
5													
Associated with: GW044-204 GW044-604													
SAMPLER(S): G. Begay				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5850									
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME		
Printed Name and Signature: G. Begay				10-1-2020 1930		Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature: Nicole Reith				10/2/20 1020			

QPM

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-016-204

YEAR
2020

QUARTER
4 (Oct-Dec)

PROJECT NAME
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER
62599DM01
6360401

LABORATORY NAME AND CONTACT
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE
ST106/SS111

Lab PO Number: 14800-21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(Total) Carbonate, and Bicarbonate (353.2)	Alkalinity (5M/2320B)	Carbon Dioxide (RSK-175)	
1	GW016-204	10-1-2020	1601	10	3			2	1	1*	1	1	1			
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S)
Dylan Schmeelk

RELINQUISHED BY:
D. Schmeelk, [Signature]

DATE
10-1-2020

TIME
1930

COURIER AND SHIPPING NUMBER
FedEx 8155 2826 5840

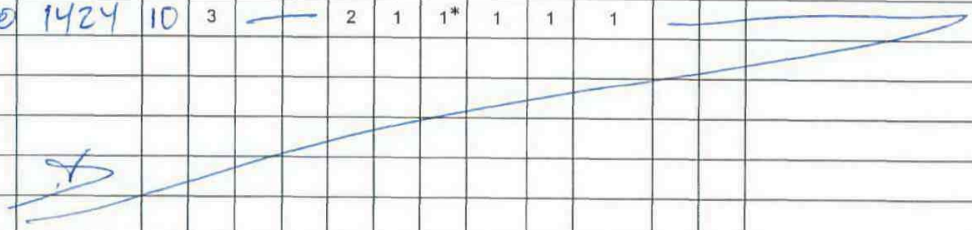
RECEIVED BY:
Nicole Rutt [Signature]

DATE
10/2/20

TIME
1044

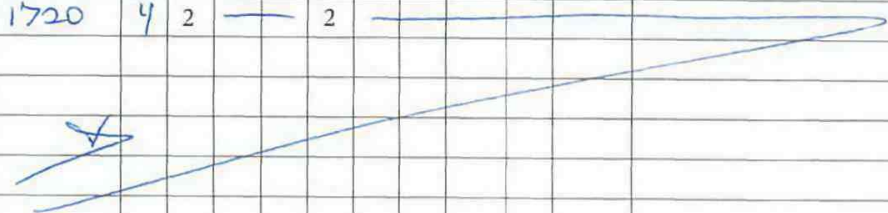
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 225 Schling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-1525		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-027-204								
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)								
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 14000 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
				ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Total, Carbonate, and Bicarbonate (5M2320B)	Alkalinity (RSK-175)	Carbon Dioxide (RSK-175)	Comments				
1	GW027-204	10-1-2020	1424	10	3	—	—	2	1	1*	1	1	1	—	—					
2																				
3																				
4																				
5																				
6																				
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																				
SAMPLER(S): D. Schueck										COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5840										
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:			DATE		TIME	
Printed Name and Signature: D. Schueck										10-1-2020		1930		Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature: Nicole Reiff			10/2/20		1644	

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 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1925		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-02								
PROJECT NAME Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER 62599DM01 6360401		LABORATORY NAME AND CONTACT Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA								
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295 14800		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258										
		ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8200C) VOCs	(8200C) BTEX	(8200C) BTEXN	(8011) EDB	(8200C) Total As Pb Ca K Na Mg	(6010C) Dissolved Fe, Mn	(3000) Chloride, bromide, sulfate	(3532) Nitrate-Nitrite	(3532) Alkalinity (Total Carbonate, and Bicarbonate)	COMMENTS
1	TB204-02	10-1-2020	1720	4	2			2						
2														
3														
4														
5														
Associated with: GW016-204 GW027-204														
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5840										
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME							
Printed Name and Signature: G. Begaye		10-1-2020		1930										
Printed Name and Signature:														
Printed Name and Signature:														
Printed Name and Signature:														
Printed Name and Signature:														
Printed Name and Signature:														

QCM

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-011-204	
PROJECT NAME Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER 02599BDM01 6360401		LABORATORY NAME AND CONTACT Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE ST106/SS111				Lab PO Number: 14800 → 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cu, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate and Bicarbonate) (3542/3208)	Carbon Dioxide (RSK-175)	Comments	
1	GW011-204	10-1-2020	1100	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB204-03															
SAMPLER(S): D. Schuelek				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5839											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schuelek				10-1-2020		1930		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Nicole Ruff				10/16/20		1022	

gem

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-03	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM04 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tiamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	EDB (8250C)	Total As, Pb, Cd, Cr, Ni, Mn (6020A/6010C)	Disolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	COMMENTS		
1	TB204-03	10-1-2020	1720	4	2	—	2								
2															
3															
4															
5															
Associated with: GW011-204															
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5839											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: G. Begaye				10-1-2020	1930	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Ruff				10/2/20	1022				

pm

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-15842-1

Login Number: 15842**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



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Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-15948-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 1

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
12/16/2020 11:15:51 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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results through

TotalAccess

Have a Question?



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The
Expert**

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Darlene Bandy
Project Manager I
12/16/2020 11:15:51 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Job ID: 410-15948-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-15948-1

REVISION

The report being provided is a revision of the original report sent on 10/20/2020. The report (revision 1) is being revised due to The prep blank form in the Level 4 report was missing Arsenic 6020. In addition, the limits for the MS/MSD for Lead 6020A were corrected from 88-118% to 88-115% per the QSM.

Receipt

The samples were received on 10/3/2020 9:42 AM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6°C and 0.8°C

GC/MS VOA

Method 8260C_DOD5: The response for Hexachlorobutadiene in the continuing calibration verification (CCV) marginally exceeds the DoD acceptance criteria on batch 410-53580. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C_DOD5: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW012R-204 (410-15948-1), GW3411-204 (410-15948-2), ER204-01 (410-15948-3), TB204-04 (410-15948-4) and TB204-05 (410-15948-5). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: GW012R-204

Lab Sample ID: 410-15948-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Toluene	1.6		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Bromide	1.7	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	170	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	300	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	170		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	26		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	5.0		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	67		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Lead	0.00016	J J1	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	4.5		0.50	0.45	0.20	mg/L	5			353.2	Total/NA

Client Sample ID: GW3411-204

Lab Sample ID: 410-15948-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Toluene	1.3		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Chloride	8.1	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	26	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	36		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.4		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.2		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	20		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.12		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: ER204-01

Lab Sample ID: 410-15948-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.1	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Bromodichloromethane	0.54	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Bromoform	2.1	J	4.0	2.0	1.0	ug/L	1			8260C DOD	Total/NA
Chloroform	0.35	J M	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Dibromochloromethane	0.74	J M	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Toluene	1.7		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Lead	0.00023	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA

Client Sample ID: TB204-04

Lab Sample ID: 410-15948-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: TB204-05

Lab Sample ID: 410-15948-5

☐ No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: GW012R-204

Lab Sample ID: 410-15948-1

Date Collected: 10/02/20 11:00

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:35	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 14:35	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 14:35	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 14:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 14:35	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 14:35	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:35	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 14:35	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 14:35	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 14:35	1
Acetone	2.0	U J1	20	2.0	0.70	ug/L		10/13/20 14:35	1
Acrolein	5.0	U J1	100	5.0	3.0	ug/L		10/13/20 14:35	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 14:35	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 14:35	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:35	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 14:35	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 14:35	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: GW012R-204

Lab Sample ID: 410-15948-1

Date Collected: 10/02/20 11:00

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 14:35	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 14:35	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 14:35	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 14:35	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 14:35	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 14:35	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Toluene	1.6		1.0	0.50	0.20	ug/L		10/13/20 14:35	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 14:35	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 14:35	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		81 - 118		10/13/20 14:35	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 14:35	1
Dibromofluoromethane (Surr)	102		80 - 119		10/13/20 14:35	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 14:35	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/12/20 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	110		46 - 136	10/10/20 00:26	10/12/20 20:18	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/10/20 00:26	10/12/20 20:18	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.7	J D	2.5	2.0	1.3	mg/L		10/07/20 12:33	5
Chloride	170	D	20	15	10	mg/L		10/07/20 12:51	50
Sulfate	300	D	50	45	15	mg/L		10/07/20 12:51	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	170		0.20	0.15	0.096	mg/L		10/06/20 10:44	1
Magnesium	26		0.10	0.075	0.040	mg/L		10/06/20 10:44	1
Potassium	5.0		0.50	0.38	0.20	mg/L		10/06/20 10:44	1
Sodium	67		1.0	0.50	0.24	mg/L		10/06/20 10:44	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U J1 Q	0.21	0.10	0.041	mg/L		10/07/20 15:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: GW012R-204

Lab Sample ID: 410-15948-1

Date Collected: 10/02/20 11:00

Matrix: Water

Date Received: 10/03/20 09:42

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U J1 Q	0.010	0.0052	0.0031	mg/L		10/07/20 15:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U J1	0.0020	0.0016	0.00068	mg/L		10/06/20 15:28	1
Lead	0.00016	J J1	0.00050	0.00025	0.000071	mg/L		10/07/20 17:57	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/05/20 21:48	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 21:48	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/05/20 21:48	1
Nitrate Nitrite as N	4.5		0.50	0.45	0.20	mg/L		10/14/20 16:08	5

Client Sample ID: GW3411-204

Lab Sample ID: 410-15948-2

Date Collected: 10/02/20 13:44

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 16:26	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 16:26	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 16:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 16:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 16:26	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 16:26	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 16:26	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 16:26	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 16:26	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 16:26	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 16:26	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 16:26	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 16:26	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 16:26	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: GW3411-204

Lab Sample ID: 410-15948-2

Date Collected: 10/02/20 13:44

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 16:26	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 16:26	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 16:26	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 16:26	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 16:26	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 16:26	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 16:26	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 16:26	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 16:26	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 16:26	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Toluene	1.3		1.0	0.50	0.20	ug/L		10/13/20 16:26	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 16:26	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 16:26	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		81 - 118		10/13/20 16:26	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 16:26	1
Dibromofluoromethane (Surr)	99		80 - 119		10/13/20 16:26	1
Toluene-d8 (Surr)	99		89 - 112		10/13/20 16:26	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.029	0.020	0.0098	ug/L		10/12/20 21:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: GW3411-204

Lab Sample ID: 410-15948-2

Date Collected: 10/02/20 13:44

Matrix: Water

Date Received: 10/03/20 09:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136	10/10/20 00:26	10/12/20 21:08	1
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136	10/10/20 00:26	10/12/20 21:08	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/07/20 11:57	5
Chloride	8.1	D	2.0	1.5	1.0	mg/L		10/07/20 11:57	5
Sulfate	26	D	5.0	4.5	1.5	mg/L		10/07/20 11:57	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	36		0.20	0.15	0.096	mg/L		10/06/20 10:47	1
Magnesium	5.4		0.10	0.075	0.040	mg/L		10/06/20 10:47	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/06/20 10:47	1
Sodium	20		1.0	0.50	0.24	mg/L		10/06/20 10:47	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U Q	0.21	0.10	0.041	mg/L		10/07/20 16:11	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/07/20 16:11	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/06/20 15:39	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/07/20 18:07	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/05/20 21:54	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 21:54	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/05/20 21:54	1
Nitrate Nitrite as N	0.12		0.10	0.090	0.040	mg/L		10/14/20 16:09	1

Client Sample ID: ER204-01

Lab Sample ID: 410-15948-3

Date Collected: 10/02/20 09:25

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:00	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 12:00	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:00	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:00	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: ER204-01

Lab Sample ID: 410-15948-3

Date Collected: 10/02/20 09:25

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:00	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:00	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:00	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 12:00	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 12:00	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 12:00	1
Acetone	1.1	J	20	2.0	0.70	ug/L		10/13/20 12:00	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 12:00	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 12:00	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
Bromodichloromethane	0.54	J	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Bromoform	2.1	J	4.0	2.0	1.0	ug/L		10/13/20 12:00	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:00	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Chloroform	0.35	J M	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Dibromochloromethane	0.74	J M	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 12:00	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 12:00	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:00	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:00	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:00	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 12:00	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:00	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:00	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Toluene	1.7		1.0	0.50	0.20	ug/L		10/13/20 12:00	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: ER204-01

Lab Sample ID: 410-15948-3

Date Collected: 10/02/20 09:25

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 12:00	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:00	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/13/20 12:00	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/13/20 12:00	1
Dibromofluoromethane (Surr)	100		80 - 119		10/13/20 12:00	1
Toluene-d8 (Surr)	101		89 - 112		10/13/20 12:00	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/12/20 21:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136	10/10/20 00:26	10/12/20 21:25	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/10/20 00:26	10/12/20 21:25	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/06/20 10:34	1
Iron	0.10	U	0.20	0.10	0.040	mg/L		10/06/20 10:34	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/06/20 10:34	1
Manganese	0.0050	U	0.010	0.0050	0.0030	mg/L		10/06/20 10:34	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/06/20 10:34	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/06/20 10:34	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/06/20 15:51	1
Lead	0.00023	J	0.00050	0.00025	0.000071	mg/L		10/07/20 18:19	1

Client Sample ID: TB204-04

Lab Sample ID: 410-15948-4

Date Collected: 10/02/20 15:15

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:22	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 12:22	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: TB204-04

Lab Sample ID: 410-15948-4

Date Collected: 10/02/20 15:15

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:22	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:22	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:22	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:22	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:22	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 12:22	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 12:22	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 12:22	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 12:22	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 12:22	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 12:22	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 12:22	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:22	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 12:22	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 12:22	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:22	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:22	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:22	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 12:22	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: TB204-04

Lab Sample ID: 410-15948-4

Date Collected: 10/02/20 15:15

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:22	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:22	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 12:22	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:22	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		10/13/20 12:22	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/13/20 12:22	1
Dibromofluoromethane (Surr)	100		80 - 119		10/13/20 12:22	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 12:22	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/14/20 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	112		46 - 136	10/09/20 23:50	10/14/20 07:14	1
1,1,2,2-Tetrachloroethane (2C)	103		46 - 136	10/09/20 23:50	10/14/20 07:14	1

Client Sample ID: TB204-05

Lab Sample ID: 410-15948-5

Date Collected: 10/02/20 15:15

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:45	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 12:45	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:45	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:45	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/13/20 12:45	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:45	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: TB204-05

Lab Sample ID: 410-15948-5

Date Collected: 10/02/20 15:15

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:45	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 12:45	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 12:45	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 12:45	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 12:45	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 12:45	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 12:45	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 12:45	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:45	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 12:45	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/13/20 12:45	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:45	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 12:45	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 12:45	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 12:45	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 12:45	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 12:45	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 12:45	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 12:45	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: TB204-05

Lab Sample ID: 410-15948-5

Date Collected: 10/02/20 15:15

Matrix: Water

Date Received: 10/03/20 09:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		81 - 118		10/13/20 12:45	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 12:45	1
Dibromofluoromethane (Surr)	101		80 - 119		10/13/20 12:45	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 12:45	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/12/20 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	108		46 - 136	10/10/20 00:26	10/12/20 21:41	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	10/10/20 00:26	10/12/20 21:41	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-15948-1	GW012R-204	109	97	102	100
410-15948-1 MS	GW012R-204	107	100	101	99
410-15948-1 MS	GW012R-204	108	97	99	99
410-15948-1 MSD	GW012R-204	107	99	99	100
410-15948-1 MSD	GW012R-204	108	96	99	99
410-15948-2	GW3411-204	108	97	99	99
410-15948-3	ER204-01	104	96	100	101
410-15948-4	TB204-04	105	96	100	100
410-15948-5	TB204-05	107	97	101	100
LCS 410-53580/6	Lab Control Sample	105	99	99	102
LCS 410-53580/7	Lab Control Sample	106	97	99	100
MB 410-53580/9	Method Blank	107	97	100	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-15948-1	GW012R-204	110	95
410-15948-1 MS	GW012R-204	117	97
410-15948-1 MSD	GW012R-204	113	95
410-15948-2	GW3411-204	102	94
410-15948-3	ER204-01	105	97
410-15948-4	TB204-04	112	103
410-15948-5	TB204-05	108	101
LCS 410-52945/2-A	Lab Control Sample		98
LCS 410-52948/2-A	Lab Control Sample	105	95
LCSD 410-52945/3-A	Lab Control Sample Dup		100
LCSD 410-52948/3-A	Lab Control Sample Dup	112	100
MB 410-52945/1-A	Method Blank		98
MB 410-52948/1-A	Method Blank	109	100

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-53580/9

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/13/20 11:12	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 11:12	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 11:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 11:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 11:12	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 11:12	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/13/20 11:12	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/13/20 11:12	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/13/20 11:12	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/13/20 11:12	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/13/20 11:12	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/13/20 11:12	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 11:12	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/13/20 11:12	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-53580/9

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 11:12	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/13/20 11:12	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/13/20 11:12	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/13/20 11:12	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/13/20 11:12	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/13/20 11:12	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/13/20 11:12	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/13/20 11:12	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/13/20 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		81 - 118		10/13/20 11:12	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/13/20 11:12	1
Dibromofluoromethane (Surr)	100		80 - 119		10/13/20 11:12	1
Toluene-d8 (Surr)	100		89 - 112		10/13/20 11:12	1

Lab Sample ID: LCS 410-53580/6

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.7		ug/L		94	78 - 124
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	21.1		ug/L		106	80 - 119
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125
1,1-Dichloroethene	20.0	20.3		ug/L		102	71 - 131
1,1-Dichloropropene	20.0	19.9		ug/L		99	79 - 125
1,2,3-Trichlorobenzene	20.0	17.6		ug/L		88	69 - 129
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	69 - 130
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	19.5		ug/L		97	77 - 121
1,2-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 119
1,2-Dichloroethane	20.0	20.8		ug/L		104	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-53580/6

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.0		ug/L		105	78 - 122
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		99	75 - 124
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 119
1,3-Dichloropropane	20.0	20.0		ug/L		100	80 - 119
1,4-Dichlorobenzene	20.0	19.6		ug/L		98	79 - 118
2,2-Dichloropropane	20.0	18.4		ug/L		92	60 - 139
2-Butanone	150	152	M	ug/L		101	56 - 143
2-Chlorotoluene	20.0	19.0		ug/L		95	79 - 122
2-Hexanone	100	98.0		ug/L		98	57 - 139
4-Chlorotoluene	20.0	19.3		ug/L		96	78 - 122
4-Methyl-2-pentanone	100	100		ug/L		100	67 - 130
Acetone	150	173		ug/L		115	39 - 160
Acrolein	150	157		ug/L		105	39 - 155
Acrylonitrile	100	102		ug/L		102	63 - 135
Benzene	20.0	20.1		ug/L		100	42 - 138
Bromobenzene	20.0	19.2		ug/L		96	80 - 120
Bromochloromethane	20.0	18.8		ug/L		94	78 - 123
Bromodichloromethane	20.0	20.2		ug/L		101	79 - 125
Bromoform	20.0	16.5		ug/L		82	66 - 130
Bromomethane	20.0	15.8		ug/L		79	53 - 141
Carbon disulfide	20.0	21.0		ug/L		105	64 - 133
Carbon tetrachloride	20.0	18.6		ug/L		93	72 - 136
Chlorobenzene	20.0	19.8		ug/L		99	82 - 118
Chloroethane	20.0	14.4		ug/L		72	60 - 138
Chloroform	20.0	20.3		ug/L		101	79 - 124
Chloromethane	20.0	12.4		ug/L		62	50 - 139
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	78 - 123
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	75 - 124
Dibromochloromethane	20.0	19.7		ug/L		98	74 - 126
Dibromomethane	20.0	20.7		ug/L		104	79 - 123
Dichlorodifluoromethane	20.0	13.0		ug/L		65	32 - 152
Ethylbenzene	20.0	19.8		ug/L		99	79 - 121
Hexachlorobutadiene	20.0	15.2		ug/L		76	66 - 134
Isopropylbenzene	20.0	19.5		ug/L		98	72 - 131
m&p-Xylene	40.0	39.8		ug/L		100	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	21.2		ug/L		106	74 - 124
Naphthalene	20.0	19.5		ug/L		97	61 - 128
n-Butylbenzene	20.0	19.4		ug/L		97	75 - 128
N-Propylbenzene	20.0	20.2		ug/L		101	76 - 126
o-Xylene	20.0	19.8		ug/L		99	78 - 122
p-Isopropyltoluene	20.0	19.7		ug/L		99	77 - 127
sec-Butylbenzene	20.0	19.8		ug/L		99	77 - 126
Styrene	20.0	20.3		ug/L		101	78 - 123
tert-Butylbenzene	20.0	19.1		ug/L		95	78 - 124
Tetrachloroethene	20.0	19.3		ug/L		96	74 - 129
Toluene	20.0	19.7		ug/L		98	80 - 121
trans-1,2-Dichloroethene	20.0	20.0		ug/L		100	75 - 124
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-53580/6

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.6		ug/L		98	79 - 123
Trichlorofluoromethane	20.0	15.6		ug/L		78	65 - 141
Vinyl chloride	20.0	14.2		ug/L		71	58 - 137
Xylenes, Total	60.0	59.6		ug/L		99	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: LCS 410-53580/7

Matrix: Water

Analysis Batch: 53580

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	99.1		ug/L		99	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: 410-15948-1 MS

Matrix: Water

Analysis Batch: 53580

Client Sample ID: GW012R-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.3		ug/L		101	78 - 124
1,1,1-Trichloroethane	0.50	U	20.0	23.2		ug/L		116	74 - 131
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.3		ug/L		102	71 - 121
1,1,2-Trichloroethane	0.50	U	20.0	21.5		ug/L		108	80 - 119
1,1-Dichloroethane	0.50	U	20.0	23.1		ug/L		115	77 - 125
1,1-Dichloroethene	0.50	U	20.0	24.8		ug/L		124	71 - 131
1,1-Dichloropropene	0.50	U	20.0	24.4		ug/L		122	79 - 125
1,2,3-Trichlorobenzene	1.0	U	20.0	18.8		ug/L		94	69 - 129
1,2,3-Trichloropropane	0.50	U	20.0	20.2		ug/L		101	73 - 122
1,2,4-Trichlorobenzene	1.0	U	20.0	18.5		ug/L		93	69 - 130
1,2,4-Trimethylbenzene	2.0	U	20.0	21.7		ug/L		109	76 - 124
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	19.0		ug/L		95	62 - 128
1,2-Dibromoethane	0.50	U	20.0	19.7		ug/L		99	77 - 121
1,2-Dichlorobenzene	0.50	U	20.0	21.1		ug/L		105	80 - 119
1,2-Dichloroethane	0.50	U	20.0	22.3		ug/L		112	73 - 128
1,2-Dichloropropane	0.50	U	20.0	23.1		ug/L		115	78 - 122
1,3,5-Trimethylbenzene	1.0	U	20.0	21.9		ug/L		110	75 - 124
1,3-Dichlorobenzene	0.50	U	20.0	21.3		ug/L		106	80 - 119
1,3-Dichloropropane	0.50	U	20.0	20.4		ug/L		102	80 - 119

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-15948-1 MS

Matrix: Water

Analysis Batch: 53580

Client Sample ID: GW012R-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.50	U	20.0	21.3		ug/L		106	79 - 118
2,2-Dichloropropane	0.50	U	20.0	21.9		ug/L		110	60 - 139
2-Butanone	1.0	U	150	148		ug/L		99	56 - 143
2-Chlorotoluene	0.50	U	20.0	21.2		ug/L		106	79 - 122
2-Hexanone	1.0	U	100	96.5		ug/L		96	57 - 139
4-Chlorotoluene	0.50	U	20.0	21.1		ug/L		105	78 - 122
4-Methyl-2-pentanone	1.0	U	100	100		ug/L		100	67 - 130
Acetone	2.0	U J1	150	201		ug/L		134	39 - 160
Acrolein	5.0	U J1	150	184		ug/L		123	39 - 155
Acrylonitrile	1.0	U	100	99.7		ug/L		100	63 - 135
Benzene	0.50	U	20.0	22.9		ug/L		115	42 - 138
Bromobenzene	0.50	U	20.0	20.7		ug/L		104	80 - 120
Bromochloromethane	0.50	U	20.0	20.0		ug/L		100	78 - 123
Bromodichloromethane	0.50	U	20.0	22.5		ug/L		112	79 - 125
Bromoform	2.0	U	20.0	16.6		ug/L		83	66 - 130
Bromomethane	0.50	U	20.0	18.5		ug/L		92	53 - 141
Carbon disulfide	0.50	U	20.0	25.3		ug/L		127	64 - 133
Carbon tetrachloride	0.50	U	20.0	23.4		ug/L		117	72 - 136
Chlorobenzene	0.50	U	20.0	21.8		ug/L		109	82 - 118
Chloroethane	0.50	U	20.0	16.1		ug/L		81	60 - 138
Chloroform	0.50	U	20.0	24.6		ug/L		123	79 - 124
Chloromethane	0.50	U	20.0	14.3		ug/L		72	50 - 139
cis-1,2-Dichloroethene	0.50	U	20.0	23.6		ug/L		118	78 - 123
cis-1,3-Dichloropropene	0.50	U	20.0	20.6		ug/L		103	75 - 124
Dibromochloromethane	0.50	U	20.0	20.3		ug/L		102	74 - 126
Dibromomethane	0.50	U	20.0	21.7		ug/L		108	79 - 123
Dichlorodifluoromethane	0.50	U	20.0	16.1		ug/L		81	32 - 152
Ethylbenzene	0.80	U	20.0	22.2		ug/L		111	79 - 121
Hexachlorobutadiene	4.0	U Q	20.0	17.7		ug/L		89	66 - 134
Isopropylbenzene	0.50	U	20.0	22.4		ug/L		112	72 - 131
m&p-Xylene	2.0	U	40.0	45.0		ug/L		112	80 - 121
Methyl tertiary butyl ether	0.50	U	20.0	18.6		ug/L		93	71 - 124
Methylene Chloride	0.50	U	20.0	23.2		ug/L		116	74 - 124
Naphthalene	2.0	U	20.0	19.7		ug/L		98	61 - 128
n-Butylbenzene	0.50	U	20.0	22.4		ug/L		112	75 - 128
N-Propylbenzene	0.50	U	20.0	22.8		ug/L		114	76 - 126
o-Xylene	0.80	U	20.0	21.7		ug/L		109	78 - 122
p-Isopropyltoluene	0.50	U	20.0	22.4		ug/L		112	77 - 127
sec-Butylbenzene	0.50	U	20.0	22.8		ug/L		114	77 - 126
Styrene	0.50	U	20.0	22.1		ug/L		110	78 - 123
tert-Butylbenzene	1.0	U	20.0	21.1		ug/L		106	78 - 124
Tetrachloroethene	0.50	U	20.0	21.4		ug/L		107	74 - 129
Toluene	1.6		20.0	23.6		ug/L		110	80 - 121
trans-1,2-Dichloroethene	0.50	U	20.0	23.1		ug/L		115	75 - 124
trans-1,3-Dichloropropene	0.50	U	20.0	19.6		ug/L		98	73 - 127
Trichloroethene	0.50	U	20.0	23.1		ug/L		115	79 - 123
Trichlorofluoromethane	0.50	U	20.0	19.7		ug/L		98	65 - 141
Vinyl chloride	0.50	U	20.0	16.4		ug/L		82	58 - 137
Xylenes, Total	2.0	U	60.0	66.7		ug/L		111	79 - 121

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: 410-15948-1 MS
Matrix: Water
Analysis Batch: 53580

Client Sample ID: GW012R-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	2.0	U	100	106		ug/L		106	54 - 146

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: 410-15948-1 MSD
Matrix: Water
Analysis Batch: 53580

Client Sample ID: GW012R-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.3		ug/L		101	78 - 124	0	20
1,1,1-Trichloroethane	0.50	U	20.0	22.9		ug/L		115	74 - 131	1	20
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.6		ug/L		103	71 - 121	1	20
1,1,2-Trichloroethane	0.50	U	20.0	21.5		ug/L		107	80 - 119	0	20
1,1-Dichloroethane	0.50	U	20.0	23.2		ug/L		116	77 - 125	0	20
1,1-Dichloroethene	0.50	U	20.0	24.1		ug/L		120	71 - 131	3	20
1,1-Dichloropropene	0.50	U	20.0	23.9		ug/L		120	79 - 125	2	20
1,2,3-Trichlorobenzene	1.0	U	20.0	19.0		ug/L		95	69 - 129	1	20
1,2,3-Trichloropropane	0.50	U	20.0	20.4		ug/L		102	73 - 122	1	20
1,2,4-Trichlorobenzene	1.0	U	20.0	18.6		ug/L		93	69 - 130	0	20
1,2,4-Trimethylbenzene	2.0	U	20.0	21.7		ug/L		108	76 - 124	0	20
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	19.4		ug/L		97	62 - 128	2	20
1,2-Dibromoethane	0.50	U	20.0	19.8		ug/L		99	77 - 121	0	20
1,2-Dichlorobenzene	0.50	U	20.0	20.8		ug/L		104	80 - 119	1	20
1,2-Dichloroethane	0.50	U	20.0	21.8		ug/L		109	73 - 128	2	20
1,2-Dichloropropane	0.50	U	20.0	23.1		ug/L		115	78 - 122	0	20
1,3,5-Trimethylbenzene	1.0	U	20.0	22.1		ug/L		110	75 - 124	1	20
1,3-Dichlorobenzene	0.50	U	20.0	21.0		ug/L		105	80 - 119	1	20
1,3-Dichloropropane	0.50	U	20.0	20.6		ug/L		103	80 - 119	1	20
1,4-Dichlorobenzene	0.50	U	20.0	21.2		ug/L		106	79 - 118	0	20
2,2-Dichloropropane	0.50	U	20.0	21.7		ug/L		109	60 - 139	1	20
2-Butanone	1.0	U	150	154		ug/L		102	56 - 143	4	20
2-Chlorotoluene	0.50	U	20.0	21.3		ug/L		107	79 - 122	1	20
2-Hexanone	1.0	U	100	97.7		ug/L		98	57 - 139	1	20
4-Chlorotoluene	0.50	U	20.0	21.1		ug/L		105	78 - 122	0	20
4-Methyl-2-pentanone	1.0	U	100	103		ug/L		103	67 - 130	3	20
Acetone	2.0	U J1	150	145	J1	ug/L		97	39 - 160	32	20
Acrolein	5.0	U J1	150	144	J1	ug/L		96	39 - 155	25	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-15948-1 MSD

Client Sample ID: GW012R-204

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 53580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrylonitrile	1.0	U	100	103		ug/L		103	63 - 135	3	20
Benzene	0.50	U	20.0	22.8		ug/L		114	42 - 138	0	20
Bromobenzene	0.50	U	20.0	20.6		ug/L		103	80 - 120	0	20
Bromochloromethane	0.50	U	20.0	20.0		ug/L		100	78 - 123	0	20
Bromodichloromethane	0.50	U	20.0	21.8		ug/L		109	79 - 125	3	20
Bromoform	2.0	U	20.0	16.3		ug/L		82	66 - 130	2	20
Bromomethane	0.50	U	20.0	17.4		ug/L		87	53 - 141	6	20
Carbon disulfide	0.50	U	20.0	24.8		ug/L		124	64 - 133	2	20
Carbon tetrachloride	0.50	U	20.0	23.0		ug/L		115	72 - 136	2	20
Chlorobenzene	0.50	U	20.0	21.7		ug/L		108	82 - 118	0	20
Chloroethane	0.50	U	20.0	15.2		ug/L		76	60 - 138	6	20
Chloroform	0.50	U	20.0	24.5		ug/L		122	79 - 124	0	20
Chloromethane	0.50	U	20.0	14.9		ug/L		75	50 - 139	4	20
cis-1,2-Dichloroethene	0.50	U	20.0	23.5		ug/L		117	78 - 123	0	20
cis-1,3-Dichloropropene	0.50	U	20.0	20.9		ug/L		105	75 - 124	2	20
Dibromochloromethane	0.50	U	20.0	19.8		ug/L		99	74 - 126	3	20
Dibromomethane	0.50	U	20.0	21.7		ug/L		109	79 - 123	0	20
Dichlorodifluoromethane	0.50	U	20.0	16.4		ug/L		82	32 - 152	1	20
Ethylbenzene	0.80	U	20.0	22.3		ug/L		112	79 - 121	1	20
Hexachlorobutadiene	4.0	U Q	20.0	18.3		ug/L		92	66 - 134	3	20
Isopropylbenzene	0.50	U	20.0	22.2		ug/L		111	72 - 131	1	20
m&p-Xylene	2.0	U	40.0	44.9		ug/L		112	80 - 121	0	20
Methyl tertiary butyl ether	0.50	U	20.0	18.7		ug/L		93	71 - 124	1	20
Methylene Chloride	0.50	U	20.0	22.9		ug/L		114	74 - 124	1	20
Naphthalene	2.0	U	20.0	20.2		ug/L		101	61 - 128	3	20
n-Butylbenzene	0.50	U	20.0	22.6		ug/L		113	75 - 128	1	20
N-Propylbenzene	0.50	U	20.0	22.8		ug/L		114	76 - 126	0	20
o-Xylene	0.80	U	20.0	21.8		ug/L		109	78 - 122	0	20
p-Isopropyltoluene	0.50	U	20.0	22.4		ug/L		112	77 - 127	0	20
sec-Butylbenzene	0.50	U	20.0	22.6		ug/L		113	77 - 126	1	20
Styrene	0.50	U	20.0	22.0		ug/L		110	78 - 123	1	20
tert-Butylbenzene	1.0	U	20.0	21.5		ug/L		108	78 - 124	2	20
Tetrachloroethene	0.50	U	20.0	21.0		ug/L		105	74 - 129	2	20
Toluene	1.6		20.0	23.6		ug/L		110	80 - 121	0	20
trans-1,2-Dichloroethene	0.50	U	20.0	23.2		ug/L		116	75 - 124	1	20
trans-1,3-Dichloropropene	0.50	U	20.0	19.7		ug/L		99	73 - 127	1	20
Trichloroethene	0.50	U	20.0	23.0		ug/L		115	79 - 123	0	20
Trichlorofluoromethane	0.50	U	20.0	19.3		ug/L		96	65 - 141	2	20
Vinyl chloride	0.50	U	20.0	17.1		ug/L		86	58 - 137	4	20
Xylenes, Total	2.0	U	60.0	66.7		ug/L		111	79 - 121	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	100		89 - 112

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-15948-1 MSD

Matrix: Water

Analysis Batch: 53580

Client Sample ID: GW012R-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	2.0	U	100	105		ug/L		105	54 - 146	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	108		81 - 118								
4-Bromofluorobenzene (Surr)	96		85 - 114								
Dibromofluoromethane (Surr)	99		80 - 119								
Toluene-d8 (Surr)	99		89 - 112								

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-52945/1-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52945

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/13/20 22:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/09/20 23:50	10/13/20 22:18	1

Lab Sample ID: LCS 410-52945/2-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene Dibromide (1C)	0.128	0.113		ug/L		88	60 - 140		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136						

Lab Sample ID: LCSD 410-52945/3-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52945

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.116		ug/L		90	60 - 140	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136						

Lab Sample ID: MB 410-52948/1-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52948

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/12/20 19:27	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 410-52948/1-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52948

Surrogate	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	109		46 - 136	10/10/20 00:26	10/12/20 19:27	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/10/20 00:26	10/12/20 19:27	1

Lab Sample ID: LCS 410-52948/2-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.117		ug/L		92	60 - 140
Surrogate	LCS %Recovery	Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136				

Lab Sample ID: LCSD 410-52948/3-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.128	0.128		ug/L		100	60 - 140	9	20
Surrogate	LCSD %Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	112		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136						

Lab Sample ID: 410-15948-1 MS

Matrix: Water

Analysis Batch: 53440

Client Sample ID: GW012R-204

Prep Type: Total/NA

Prep Batch: 52948

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.019	U	0.123	0.117		ug/L		95	60 - 140
Surrogate	MS %Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	117		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136						

Lab Sample ID: 410-15948-1 MSD

Matrix: Water

Analysis Batch: 53440

Client Sample ID: GW012R-204

Prep Type: Total/NA

Prep Batch: 52948

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.019	U	0.123	0.113		ug/L		92	60 - 140	4	20
Surrogate	MSD %Recovery	Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	113		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136								

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-51838/4

Matrix: Water

Analysis Batch: 51838

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/07/20 09:50	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/07/20 09:50	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/07/20 09:50	1

Lab Sample ID: LCS 410-51838/3

Matrix: Water

Analysis Batch: 51838

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.57		mg/L		101	90 - 110
Chloride	3.00	2.93		mg/L		98	90 - 110
Sulfate	7.50	7.52		mg/L		100	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-51053/1-A

Matrix: Water

Analysis Batch: 52000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51053

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/07/20 15:04	1
Manganese	0.00721	J	0.010	0.0052	0.0031	mg/L		10/07/20 15:04	1

Lab Sample ID: LCS 410-51053/2-A

Matrix: Water

Analysis Batch: 52000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.495	Q	mg/L		123	87 - 115
Manganese	0.0200	0.0247	Q	mg/L		124	90 - 114

Lab Sample ID: MB 410-50886/1-A

Matrix: Water

Analysis Batch: 51354

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 50886

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/06/20 09:24	1
Iron	100	U	200	100	40	ug/L		10/06/20 09:24	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/06/20 09:24	1
Manganese	5.0	U	10	5.0	3.0	ug/L		10/06/20 09:24	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/06/20 09:24	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/06/20 09:24	1

Lab Sample ID: LCS 410-50886/2-A

Matrix: Water

Analysis Batch: 51354

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 50886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.411		mg/L		103	87 - 113
Iron	402	419		ug/L		104	87 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-50886/2-A

Matrix: Water

Analysis Batch: 51354

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 50886

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	0.200	0.207		mg/L		103	85 - 113
Manganese	20.0	21.7		ug/L		109	90 - 114
Potassium	5.60	5.69		mg/L		102	86 - 114
Sodium	2.00	2.08		mg/L		104	87 - 115

Lab Sample ID: LCSD 410-50886/3-A

Matrix: Water

Analysis Batch: 51354

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 50886

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Calcium	0.400	0.397		mg/L		99	87 - 113	4	20
Iron	402	411		ug/L		102	87 - 115	2	20
Magnesium	0.200	0.200		mg/L		100	85 - 113	3	20
Manganese	20.0	20.9		ug/L		104	90 - 114	4	20
Potassium	5.60	5.58		mg/L		100	86 - 114	2	20
Sodium	2.00	2.02		mg/L		101	87 - 115	3	20

Lab Sample ID: 410-15948-1 MS

Matrix: Water

Analysis Batch: 52000

Client Sample ID: GW012R-204

Prep Type: Dissolved

Prep Batch: 51053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U J1 Q	0.402	0.462		mg/L		115	87 - 115
Manganese	0.0052	U J1 Q	0.0200	0.0230	J1	mg/L		115	90 - 114

Lab Sample ID: 410-15948-1 MSD

Matrix: Water

Analysis Batch: 52000

Client Sample ID: GW012R-204

Prep Type: Dissolved

Prep Batch: 51053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Iron	0.10	U J1 Q	0.402	0.468	J1	mg/L		116	87 - 115	1	20
Manganese	0.0052	U J1 Q	0.0200	0.0238	J1	mg/L		119	90 - 114	3	20

Lab Sample ID: 410-15948-1 DU

Matrix: Water

Analysis Batch: 52000

Client Sample ID: GW012R-204

Prep Type: Dissolved

Prep Batch: 51053

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Iron	0.10	U J1 Q	0.10	U Q	mg/L		NC	20
Manganese	0.0052	U J1 Q	0.0052	U Q	mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-50882/1-A

Matrix: Water

Analysis Batch: 52235

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50882

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/07/20 17:52	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/07/20 17:52	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-50882/2-A

Matrix: Water

Analysis Batch: 52235

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0565		mg/L		94	84 - 116
Lead	0.0300	0.0299		mg/L		100	88 - 115

Lab Sample ID: LCSD 410-50882/3-A

Matrix: Water

Analysis Batch: 52235

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50882

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0600	0.0553		mg/L		92	84 - 116	2	20
Lead	0.0300	0.0301		mg/L		100	88 - 115	1	20

Lab Sample ID: 410-15948-1 MS

Matrix: Water

Analysis Batch: 51725

Client Sample ID: GW012R-204

Prep Type: Total/NA

Prep Batch: 50882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0016	U J1	0.0600	0.0628		mg/L		105	84 - 116

Lab Sample ID: 410-15948-1 MS

Matrix: Water

Analysis Batch: 52235

Client Sample ID: GW012R-204

Prep Type: Total/NA

Prep Batch: 50882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.00016	J1	0.0300	0.0311		mg/L		103	88 - 115

Lab Sample ID: 410-15948-1 MSD

Matrix: Water

Analysis Batch: 51725

Client Sample ID: GW012R-204

Prep Type: Total/NA

Prep Batch: 50882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0016	U J1	0.0600	0.0608		mg/L		101	84 - 116	3	20

Lab Sample ID: 410-15948-1 MSD

Matrix: Water

Analysis Batch: 52235

Client Sample ID: GW012R-204

Prep Type: Total/NA

Prep Batch: 50882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.00016	J1	0.0300	0.0298		mg/L		99	88 - 115	4	20

Lab Sample ID: 410-15948-1 DU

Matrix: Water

Analysis Batch: 51725

Client Sample ID: GW012R-204

Prep Type: Total/NA

Prep Batch: 50882

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0016	U J1	0.0016	U	mg/L		NC	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-15948-1 DU

Matrix: Water

Analysis Batch: 52235

Client Sample ID: GW012R-204

Prep Type: Total/NA

Prep Batch: 50882

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	0.00016	J1	0.000118	J	mg/L		32	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-51427/14

Matrix: Water

Analysis Batch: 51427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 19:54	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 19:54	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/05/20 19:54	1

Lab Sample ID: LCS 410-51427/15

Matrix: Water

Analysis Batch: 51427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-54412/91

Matrix: Water

Analysis Batch: 54412

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/14/20 14:20	1

Lab Sample ID: LCS 410-54412/92

Matrix: Water

Analysis Batch: 54412

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.47		mg/L		99	90 - 110

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

GC/MS VOA

Analysis Batch: 53580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	8260C DOD	
410-15948-2	GW3411-204	Total/NA	Water	8260C DOD	
410-15948-3	ER204-01	Total/NA	Water	8260C DOD	
410-15948-4	TB204-04	Total/NA	Water	8260C DOD	
410-15948-5	TB204-05	Total/NA	Water	8260C DOD	
MB 410-53580/9	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-53580/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-53580/7	Lab Control Sample	Total/NA	Water	8260C DOD	
410-15948-1 MS	GW012R-204	Total/NA	Water	8260C DOD	
410-15948-1 MS	GW012R-204	Total/NA	Water	8260C DOD	
410-15948-1 MSD	GW012R-204	Total/NA	Water	8260C DOD	
410-15948-1 MSD	GW012R-204	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 52945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-4	TB204-04	Total/NA	Water	8011	
MB 410-52945/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-52945/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-52945/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 52948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	8011	
410-15948-2	GW3411-204	Total/NA	Water	8011	
410-15948-3	ER204-01	Total/NA	Water	8011	
410-15948-5	TB204-05	Total/NA	Water	8011	
MB 410-52948/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-52948/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-52948/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-15948-1 MS	GW012R-204	Total/NA	Water	8011	
410-15948-1 MSD	GW012R-204	Total/NA	Water	8011	

Analysis Batch: 53440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	8011	52948
410-15948-2	GW3411-204	Total/NA	Water	8011	52948
410-15948-3	ER204-01	Total/NA	Water	8011	52948
410-15948-5	TB204-05	Total/NA	Water	8011	52948
MB 410-52948/1-A	Method Blank	Total/NA	Water	8011	52948
LCS 410-52948/2-A	Lab Control Sample	Total/NA	Water	8011	52948
LCSD 410-52948/3-A	Lab Control Sample Dup	Total/NA	Water	8011	52948
410-15948-1 MS	GW012R-204	Total/NA	Water	8011	52948
410-15948-1 MSD	GW012R-204	Total/NA	Water	8011	52948

Analysis Batch: 53963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-4	TB204-04	Total/NA	Water	8011	52945
MB 410-52945/1-A	Method Blank	Total/NA	Water	8011	52945
LCS 410-52945/2-A	Lab Control Sample	Total/NA	Water	8011	52945

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

GC Semi VOA (Continued)

Analysis Batch: 53963 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-52945/3-A	Lab Control Sample Dup	Total/NA	Water	8011	52945

HPLC/IC

Analysis Batch: 51838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	EPA 300.0 R2.1	
410-15948-1	GW012R-204	Total/NA	Water	EPA 300.0 R2.1	
410-15948-2	GW3411-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-51838/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-51838/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 50882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	3020A	
410-15948-2	GW3411-204	Total/NA	Water	3020A	
410-15948-3	ER204-01	Total/NA	Water	3020A	
MB 410-50882/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-50882/2-A	Lab Control Sample	Total/NA	Water	3020A	
LCSD 410-50882/3-A	Lab Control Sample Dup	Total/NA	Water	3020A	
410-15948-1 MS	GW012R-204	Total/NA	Water	3020A	
410-15948-1 MSD	GW012R-204	Total/NA	Water	3020A	
410-15948-1 DU	GW012R-204	Total/NA	Water	3020A	

Prep Batch: 50886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total Recoverable	Water	3005A	
410-15948-2	GW3411-204	Total Recoverable	Water	3005A	
410-15948-3	ER204-01	Total Recoverable	Water	3005A	
MB 410-50886/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-50886/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 410-50886/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Prep Batch: 51053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Dissolved	Water	Non-Digest Prep	
410-15948-2	GW3411-204	Dissolved	Water	Non-Digest Prep	
MB 410-51053/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-51053/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-15948-1 MS	GW012R-204	Dissolved	Water	Non-Digest Prep	
410-15948-1 MSD	GW012R-204	Dissolved	Water	Non-Digest Prep	
410-15948-1 DU	GW012R-204	Dissolved	Water	Non-Digest Prep	

Analysis Batch: 51354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total Recoverable	Water	6010C	50886
410-15948-2	GW3411-204	Total Recoverable	Water	6010C	50886
410-15948-3	ER204-01	Total Recoverable	Water	6010C	50886
MB 410-50886/1-A	Method Blank	Total Recoverable	Water	6010C	50886
LCS 410-50886/2-A	Lab Control Sample	Total Recoverable	Water	6010C	50886

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Metals (Continued)

Analysis Batch: 51354 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-50886/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010C	50886

Analysis Batch: 51725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	6020A	50882
410-15948-2	GW3411-204	Total/NA	Water	6020A	50882
410-15948-3	ER204-01	Total/NA	Water	6020A	50882
410-15948-1 MS	GW012R-204	Total/NA	Water	6020A	50882
410-15948-1 MSD	GW012R-204	Total/NA	Water	6020A	50882
410-15948-1 DU	GW012R-204	Total/NA	Water	6020A	50882

Analysis Batch: 52000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Dissolved	Water	6010C	51053
410-15948-2	GW3411-204	Dissolved	Water	6010C	51053
MB 410-51053/1-A	Method Blank	Total/NA	Water	6010C	51053
LCS 410-51053/2-A	Lab Control Sample	Total/NA	Water	6010C	51053
410-15948-1 MS	GW012R-204	Dissolved	Water	6010C	51053
410-15948-1 MSD	GW012R-204	Dissolved	Water	6010C	51053
410-15948-1 DU	GW012R-204	Dissolved	Water	6010C	51053

Analysis Batch: 52235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	6020A	50882
410-15948-2	GW3411-204	Total/NA	Water	6020A	50882
410-15948-3	ER204-01	Total/NA	Water	6020A	50882
MB 410-50882/1-A	Method Blank	Total/NA	Water	6020A	50882
LCS 410-50882/2-A	Lab Control Sample	Total/NA	Water	6020A	50882
LCSD 410-50882/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	50882
410-15948-1 MS	GW012R-204	Total/NA	Water	6020A	50882
410-15948-1 MSD	GW012R-204	Total/NA	Water	6020A	50882
410-15948-1 DU	GW012R-204	Total/NA	Water	6020A	50882

General Chemistry

Analysis Batch: 51427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	2320B-2011	
410-15948-2	GW3411-204	Total/NA	Water	2320B-2011	
MB 410-51427/14	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-51427/15	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 54412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-15948-1	GW012R-204	Total/NA	Water	353.2	
410-15948-2	GW3411-204	Total/NA	Water	353.2	
MB 410-54412/91	Method Blank	Total/NA	Water	353.2	
LCS 410-54412/92	Lab Control Sample	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: GW012R-204

Lab Sample ID: 410-15948-1

Date Collected: 10/02/20 11:00

Matrix: Water

Date Received: 10/03/20 09:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 14:35	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53440	10/12/20 20:18	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	51838	10/07/20 12:33	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	51838	10/07/20 12:51	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			51053	10/05/20 18:36	UJLA	ELLE
Dissolved	Analysis	6010C		1	52000	10/07/20 15:10	UCIG	ELLE
Total Recoverable	Prep	3005A			50886	10/05/20 11:41	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	51354	10/06/20 10:44	ULJC	ELLE
Total/NA	Prep	3020A			50882	10/05/20 11:28	UAMX	ELLE
Total/NA	Analysis	6020A		1	51725	10/06/20 15:28	V5SW	ELLE
Total/NA	Prep	3020A			50882	10/05/20 11:28	UAMX	ELLE
Total/NA	Analysis	6020A		1	52235	10/07/20 17:57	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	51427	10/05/20 21:48	JB	ELLE
Total/NA	Analysis	353.2		5	54412	10/14/20 16:08	KGQ6	ELLE

Client Sample ID: GW3411-204

Lab Sample ID: 410-15948-2

Date Collected: 10/02/20 13:44

Matrix: Water

Date Received: 10/03/20 09:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 16:26	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53440	10/12/20 21:08	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	51838	10/07/20 11:57	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			51053	10/05/20 18:36	UJLA	ELLE
Dissolved	Analysis	6010C		1	52000	10/07/20 16:11	UCIG	ELLE
Total Recoverable	Prep	3005A			50886	10/05/20 11:41	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	51354	10/06/20 10:47	ULJC	ELLE
Total/NA	Prep	3020A			50882	10/05/20 11:28	UAMX	ELLE
Total/NA	Analysis	6020A		1	51725	10/06/20 15:39	V5SW	ELLE
Total/NA	Prep	3020A			50882	10/05/20 11:28	UAMX	ELLE
Total/NA	Analysis	6020A		1	52235	10/07/20 18:07	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	51427	10/05/20 21:54	JB	ELLE
Total/NA	Analysis	353.2		1	54412	10/14/20 16:09	KGQ6	ELLE

Client Sample ID: ER204-01

Lab Sample ID: 410-15948-3

Date Collected: 10/02/20 09:25

Matrix: Water

Date Received: 10/03/20 09:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 12:00	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53440	10/12/20 21:25	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Client Sample ID: ER204-01

Date Collected: 10/02/20 09:25

Date Received: 10/03/20 09:42

Lab Sample ID: 410-15948-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50886	10/05/20 11:41	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	51354	10/06/20 10:34	ULJC	ELLE
Total/NA	Prep	3020A			50882	10/05/20 11:28	UAMX	ELLE
Total/NA	Analysis	6020A		1	51725	10/06/20 15:51	V5SW	ELLE
Total/NA	Prep	3020A			50882	10/05/20 11:28	UAMX	ELLE
Total/NA	Analysis	6020A		1	52235	10/07/20 18:19	V5SW	ELLE

Client Sample ID: TB204-04

Date Collected: 10/02/20 15:15

Date Received: 10/03/20 09:42

Lab Sample ID: 410-15948-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 12:22	NSK7	ELLE
Total/NA	Prep	8011			52945	10/09/20 23:50	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 07:14	AC3T	ELLE

Client Sample ID: TB204-05

Date Collected: 10/02/20 15:15

Date Received: 10/03/20 09:42

Lab Sample ID: 410-15948-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53580	10/13/20 12:45	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53440	10/12/20 21:41	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-15948-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-15948-1	GW012R-204	Water	10/02/20 11:00	10/03/20 09:42	
410-15948-2	GW3411-204	Water	10/02/20 13:44	10/03/20 09:42	
410-15948-3	ER204-01	Water	10/02/20 09:25	10/03/20 09:42	
410-15948-4	TB204-04	Water	10/02/20 15:15	10/03/20 09:42	
410-15948-5	TB204-05	Water	10/02/20 15:15	10/03/20 09:42	

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EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM04-03 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				COC-TB204-04			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 115007 21295		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020 QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total As, Pb, Cd, Cu, Ni, Mn (6020A/6010C)	Disolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2328B)		
1	TB204-04	10-2-2020	1515	4	2	—	2								
2															
3															
4															
5															
Associated with: GW106-Y GW012R-204															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5817											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schmeelk				10-2-2020		1630		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Christopher Stef				10-3-20		9:42	

TR

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-05						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401 636040		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA		YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 44800 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		QUARTER: 4						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)							COMMENTS			
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A6010C)	Dissolved Fe, Mn (6020A6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	
1	TB204-05	10-2-2020	1515	4	2	—	2	2						
2														
3														
4														
5														
Associated with: ER 204-01 GW3411-204														
SAMPLER(S): D. Schweelk				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 58 28										
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME			
Printed Name and Signature: D. Schweelk				10-2-2020	1630	Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature: Annigh Sanchez				10-3-2020	946			

JR

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-15948-1

Login Number: 15948**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Rivera-Santa, Julissa**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



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Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-16197-1
Client Project/Site: Kirtland AFB

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
10/27/2020 3:40:09 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

* Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
10/27/2020 3:40:09 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Job ID: 410-16197-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-16197-1

Comments

No additional comments.

Receipt

The samples were received on 10/6/2020 10:47 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.7° C.

GC/MS VOA

Method 8260C DOD: The method requirement for no headspace was not met. The following volatile samples were analyzed with significant headspace in the sample container(s): GW235-472-204 (410-16197-1[MS]) and GW235-472-204 (410-16197-1[MSD]). Significant headspace is defined as a bubble greater than 6 mm in diameter. The sample container was received with headspace.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-54077 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW235-472-204 (410-16197-1) and TB204-07 (410-16197-2). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Client Sample ID: GW235-472-204

Lab Sample ID: 410-16197-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.015	J	0.029	0.020	0.0098	ug/L	1		8011	Total/NA
Chloride	54	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	65	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	53		0.20	0.15	0.096	mg/L	1		6010C	Total
										Recoverable
Magnesium	7.2		0.10	0.075	0.040	mg/L	1		6010C	Total
										Recoverable
Potassium	3.2		0.50	0.38	0.20	mg/L	1		6010C	Total
										Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total
										Recoverable
Arsenic	0.00079	J J1	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.000098	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	90		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	90		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.0		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-07

Lab Sample ID: 410-16197-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Client Sample ID: GW235-472-204

Lab Sample ID: 410-16197-1

Date Collected: 10/05/20 09:00

Matrix: Water

Date Received: 10/06/20 10:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 14:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/14/20 14:27	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 14:27	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 14:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 14:27	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/14/20 14:27	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 14:27	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 14:27	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 14:27	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 14:27	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/14/20 14:27	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/14/20 14:27	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/14/20 14:27	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/14/20 14:27	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/14/20 14:27	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 14:27	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 14:27	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/14/20 14:27	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Client Sample ID: GW235-472-204

Lab Sample ID: 410-16197-1

Date Collected: 10/05/20 09:00

Matrix: Water

Date Received: 10/06/20 10:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 14:27	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 14:27	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 14:27	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 14:27	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 14:27	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 14:27	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/14/20 14:27	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 14:27	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/14/20 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		81 - 118		10/14/20 14:27	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/14/20 14:27	1
Dibromofluoromethane (Surr)	99		80 - 119		10/14/20 14:27	1
Toluene-d8 (Surr)	103		89 - 112		10/14/20 14:27	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.015	J	0.029	0.020	0.0098	ug/L		10/15/20 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136	10/13/20 20:59	10/15/20 20:20	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/13/20 20:59	10/15/20 20:20	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/10/20 18:11	5
Chloride	54	D	20	15	10	mg/L		10/10/20 18:29	50
Sulfate	65	D	5.0	4.5	1.5	mg/L		10/10/20 18:11	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	53		0.20	0.15	0.096	mg/L		10/12/20 23:24	1
Magnesium	7.2		0.10	0.075	0.040	mg/L		10/12/20 23:24	1
Potassium	3.2		0.50	0.38	0.20	mg/L		10/13/20 12:02	1
Sodium	24		1.0	0.50	0.24	mg/L		10/13/20 19:32	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/09/20 13:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Client Sample ID: GW235-472-204

Lab Sample ID: 410-16197-1

Date Collected: 10/05/20 09:00

Matrix: Water

Date Received: 10/06/20 10:47

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/09/20 13:52	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00079	J J1	0.0020	0.0016	0.00068	mg/L		10/08/20 11:08	1
Lead	0.000098	J	0.00050	0.00025	0.000071	mg/L		10/07/20 17:19	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	90		8.0	6.0	8.0	mg/L		10/08/20 06:23	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/08/20 06:23	1
Total Alkalinity as CaCO3 to pH 4.5	90		8.0	6.0	8.0	mg/L		10/08/20 06:23	1
Nitrate Nitrite as N	1.0		0.10	0.090	0.040	mg/L		10/22/20 13:31	1

Client Sample ID: TB204-07

Lab Sample ID: 410-16197-2

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/06/20 10:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 13:21	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/14/20 13:21	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 13:21	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 13:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 13:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/14/20 13:21	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 13:21	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 13:21	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 13:21	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 13:21	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/14/20 13:21	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/14/20 13:21	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/14/20 13:21	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/14/20 13:21	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Client Sample ID: TB204-07

Lab Sample ID: 410-16197-2

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/06/20 10:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/14/20 13:21	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 13:21	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 13:21	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/14/20 13:21	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 13:21	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 13:21	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 13:21	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 13:21	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 13:21	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 13:21	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/14/20 13:21	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 13:21	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/14/20 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		81 - 118		10/14/20 13:21	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/14/20 13:21	1
Dibromofluoromethane (Surr)	99		80 - 119		10/14/20 13:21	1
Toluene-d8 (Surr)	102		89 - 112		10/14/20 13:21	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/15/20 20:37	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Client Sample ID: TB204-07

Lab Sample ID: 410-16197-2

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/06/20 10:47

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/13/20 20:59	10/15/20 20:37	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	10/13/20 20:59	10/15/20 20:37	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-16197-1	GW235-472-204	108	96	99	103
410-16197-1 MS	GW235-472-204	107	101	99	103
410-16197-1 MS	GW235-472-204	108	97	98	102
410-16197-1 MSD	GW235-472-204	107	100	100	103
410-16197-1 MSD	GW235-472-204	108	96	97	102
410-16197-2	TB204-07	107	97	99	102
LCS 410-54077/6	Lab Control Sample	106	100	99	103
LCS 410-54077/9	Lab Control Sample	107	97	97	102
LCSD 410-54077/10	Lab Control Sample Dup	107	96	97	101
LCSD 410-54077/8	Lab Control Sample Dup	107	100	100	103
MB 410-54077/12	Method Blank	109	96	99	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-16197-1	GW235-472-204	103	96
410-16197-1 MS	GW235-472-204	102	94
410-16197-1 MSD	GW235-472-204	101	95
410-16197-2	TB204-07	104	101
LCS 410-53994/2-A	Lab Control Sample	100	98
LCSD 410-53994/3-A	Lab Control Sample Dup	103	97
MB 410-53994/1-A	Method Blank	114	107

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-54077/12

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 12:37	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/14/20 12:37	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 12:37	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 12:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 12:37	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 12:37	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 12:37	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 12:37	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 12:37	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 12:37	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/14/20 12:37	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/14/20 12:37	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/14/20 12:37	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/14/20 12:37	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/14/20 12:37	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 12:37	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 12:37	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/14/20 12:37	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-54077/12

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 12:37	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 12:37	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 12:37	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 12:37	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 12:37	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 12:37	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/14/20 12:37	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 12:37	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/14/20 12:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		81 - 118		10/14/20 12:37	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/14/20 12:37	1
Dibromofluoromethane (Surr)	99		80 - 119		10/14/20 12:37	1
Toluene-d8 (Surr)	101		89 - 112		10/14/20 12:37	1

Lab Sample ID: LCS 410-54077/6

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.9		ug/L		95	78 - 124
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	80 - 119
1,1-Dichloroethane	20.0	20.7		ug/L		103	77 - 125
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131
1,1-Dichloropropene	20.0	20.0		ug/L		100	79 - 125
1,2,3-Trichlorobenzene	20.0	18.0		ug/L		90	69 - 129
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122
1,2,4-Trichlorobenzene	20.0	17.7		ug/L		88	69 - 130
1,2,4-Trimethylbenzene	20.0	19.9		ug/L		100	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.7		ug/L		98	62 - 128
1,2-Dibromoethane	20.0	19.2		ug/L		96	77 - 121
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	80 - 119
1,2-Dichloroethane	20.0	20.3		ug/L		101	73 - 128

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-54077/6

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.9		ug/L		104	78 - 122
1,3,5-Trimethylbenzene	20.0	20.2		ug/L		101	75 - 124
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 119
1,3-Dichloropropane	20.0	19.9		ug/L		100	80 - 119
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	79 - 118
2,2-Dichloropropane	20.0	19.1		ug/L		96	60 - 139
2-Butanone	150	152		ug/L		101	56 - 143
2-Chlorotoluene	20.0	19.5		ug/L		97	79 - 122
2-Hexanone	100	98.1		ug/L		98	57 - 139
4-Chlorotoluene	20.0	19.8		ug/L		99	78 - 122
4-Methyl-2-pentanone	100	99.5		ug/L		99	67 - 130
Acetone	150	145		ug/L		97	39 - 160
Acrolein	150	133		ug/L		89	39 - 155
Acrylonitrile	100	97.2		ug/L		97	63 - 135
Benzene	20.0	20.2		ug/L		101	42 - 138
Bromobenzene	20.0	19.5		ug/L		98	80 - 120
Bromochloromethane	20.0	18.5		ug/L		92	78 - 123
Bromodichloromethane	20.0	19.9		ug/L		100	79 - 125
Bromoform	20.0	16.0		ug/L		80	66 - 130
Bromomethane	20.0	16.4		ug/L		82	53 - 141
Carbon disulfide	20.0	20.6		ug/L		103	64 - 133
Carbon tetrachloride	20.0	19.1		ug/L		96	72 - 136
Chlorobenzene	20.0	19.9		ug/L		99	82 - 118
Chloroethane	20.0	14.2		ug/L		71	60 - 138
Chloroform	20.0	20.5		ug/L		103	79 - 124
Chloromethane	20.0	13.8		ug/L		69	50 - 139
cis-1,2-Dichloroethene	20.0	21.2		ug/L		106	78 - 123
cis-1,3-Dichloropropene	20.0	19.7		ug/L		98	75 - 124
Dibromochloromethane	20.0	19.3		ug/L		97	74 - 126
Dibromomethane	20.0	20.1		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	12.8		ug/L		64	32 - 152
Ethylbenzene	20.0	20.2		ug/L		101	79 - 121
Hexachlorobutadiene	20.0	15.5		ug/L		77	66 - 134
Isopropylbenzene	20.0	20.0		ug/L		100	72 - 131
m&p-Xylene	40.0	40.6		ug/L		102	80 - 121
Methyl tertiary butyl ether	20.0	18.8		ug/L		94	71 - 124
Methylene Chloride	20.0	20.9		ug/L		105	74 - 124
Naphthalene	20.0	19.8		ug/L		99	61 - 128
n-Butylbenzene	20.0	20.3		ug/L		101	75 - 128
N-Propylbenzene	20.0	20.8		ug/L		104	76 - 126
o-Xylene	20.0	20.1		ug/L		100	78 - 122
p-Isopropyltoluene	20.0	20.3		ug/L		102	77 - 127
sec-Butylbenzene	20.0	20.3		ug/L		102	77 - 126
Styrene	20.0	20.6		ug/L		103	78 - 123
tert-Butylbenzene	20.0	19.1		ug/L		95	78 - 124
Tetrachloroethene	20.0	20.0		ug/L		100	74 - 129
Toluene	20.0	20.1		ug/L		101	80 - 121
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	19.2		ug/L		96	73 - 127

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-54077/6

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.7		ug/L		99	79 - 123
Trichlorofluoromethane	20.0	15.9		ug/L		79	65 - 141
Vinyl chloride	20.0	14.8		ug/L		74	58 - 137
Xylenes, Total	60.0	60.7		ug/L		101	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCS 410-54077/9

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	105		ug/L		105	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: LCSD 410-54077/10

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	101		ug/L		101	54 - 146	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	101		89 - 112

Lab Sample ID: LCSD 410-54077/8

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	18.3		ug/L		91	78 - 124	4	20
1,1,1-Trichloroethane	20.0	18.9		ug/L		95	74 - 131	5	20
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L		96	71 - 121	6	20
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	80 - 119	5	20
1,1-Dichloroethane	20.0	19.9		ug/L		99	77 - 125	4	20
1,1-Dichloroethene	20.0	19.5		ug/L		98	71 - 131	4	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-54077/8

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene	20.0	19.1		ug/L		96	79 - 125	5	20
1,2,3-Trichlorobenzene	20.0	17.1		ug/L		86	69 - 129	5	20
1,2,3-Trichloropropane	20.0	18.9		ug/L		95	73 - 122	5	20
1,2,4-Trichlorobenzene	20.0	16.9		ug/L		84	69 - 130	5	20
1,2,4-Trimethylbenzene	20.0	19.1		ug/L		96	76 - 124	4	20
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		92	62 - 128	6	20
1,2-Dibromoethane	20.0	18.5		ug/L		92	77 - 121	4	20
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 119	4	20
1,2-Dichloroethane	20.0	19.6		ug/L		98	73 - 128	3	20
1,2-Dichloropropane	20.0	19.9		ug/L		100	78 - 122	5	20
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	75 - 124	4	20
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 119	4	20
1,3-Dichloropropane	20.0	19.1		ug/L		96	80 - 119	4	20
1,4-Dichlorobenzene	20.0	19.1		ug/L		95	79 - 118	5	20
2,2-Dichloropropane	20.0	18.7		ug/L		94	60 - 139	2	20
2-Butanone	150	136		ug/L		91	56 - 143	11	20
2-Chlorotoluene	20.0	18.8		ug/L		94	79 - 122	3	20
2-Hexanone	100	94.5		ug/L		94	57 - 139	4	20
4-Chlorotoluene	20.0	18.5		ug/L		93	78 - 122	6	20
4-Methyl-2-pentanone	100	94.6		ug/L		95	67 - 130	5	20
Acetone	150	145		ug/L		97	39 - 160	0	20
Acrolein	150	137		ug/L		92	39 - 155	4	20
Acrylonitrile	100	90.8		ug/L		91	63 - 135	7	20
Benzene	20.0	19.4		ug/L		97	42 - 138	4	20
Bromobenzene	20.0	18.5		ug/L		93	80 - 120	5	20
Bromochloromethane	20.0	17.6		ug/L		88	78 - 123	5	20
Bromodichloromethane	20.0	19.2		ug/L		96	79 - 125	4	20
Bromoform	20.0	15.8		ug/L		79	66 - 130	1	20
Bromomethane	20.0	15.5		ug/L		78	53 - 141	6	20
Carbon disulfide	20.0	19.9		ug/L		100	64 - 133	3	20
Carbon tetrachloride	20.0	18.5		ug/L		92	72 - 136	4	20
Chlorobenzene	20.0	19.3		ug/L		96	82 - 118	3	20
Chloroethane	20.0	14.2		ug/L		71	60 - 138	0	20
Chloroform	20.0	19.8		ug/L		99	79 - 124	4	20
Chloromethane	20.0	14.1	M	ug/L		70	50 - 139	2	20
cis-1,2-Dichloroethene	20.0	19.9		ug/L		100	78 - 123	6	20
cis-1,3-Dichloropropene	20.0	18.8		ug/L		94	75 - 124	4	20
Dibromochloromethane	20.0	18.5		ug/L		92	74 - 126	5	20
Dibromomethane	20.0	19.0		ug/L		95	79 - 123	6	20
Dichlorodifluoromethane	20.0	11.9		ug/L		59	32 - 152	8	20
Ethylbenzene	20.0	19.6		ug/L		98	79 - 121	3	20
Hexachlorobutadiene	20.0	14.6		ug/L		73	66 - 134	6	20
Isopropylbenzene	20.0	19.3		ug/L		97	72 - 131	4	20
m&p-Xylene	40.0	39.7		ug/L		99	80 - 121	2	20
Methyl tertiary butyl ether	20.0	18.2		ug/L		91	71 - 124	3	20
Methylene Chloride	20.0	20.0		ug/L		100	74 - 124	5	20
Naphthalene	20.0	18.7		ug/L		93	61 - 128	6	20
n-Butylbenzene	20.0	19.4		ug/L		97	75 - 128	5	20
N-Propylbenzene	20.0	19.8		ug/L		99	76 - 126	5	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-54077/8

Matrix: Water

Analysis Batch: 54077

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	20.0	19.5		ug/L		98	78 - 122	3	20
p-Isopropyltoluene	20.0	19.2		ug/L		96	77 - 127	6	20
sec-Butylbenzene	20.0	19.4		ug/L		97	77 - 126	5	20
Styrene	20.0	19.8		ug/L		99	78 - 123	4	20
tert-Butylbenzene	20.0	18.4		ug/L		92	78 - 124	3	20
Tetrachloroethene	20.0	19.7		ug/L		98	74 - 129	2	20
Toluene	20.0	19.5		ug/L		97	80 - 121	3	20
trans-1,2-Dichloroethene	20.0	19.3		ug/L		96	75 - 124	5	20
trans-1,3-Dichloropropene	20.0	18.8		ug/L		94	73 - 127	2	20
Trichloroethene	20.0	18.9		ug/L		94	79 - 123	4	20
Trichlorofluoromethane	20.0	15.0		ug/L		75	65 - 141	5	20
Vinyl chloride	20.0	14.1		ug/L		71	58 - 137	5	20
Xylenes, Total	60.0	59.2		ug/L		99	79 - 121	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16197-1 MS

Matrix: Water

Analysis Batch: 54077

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.9		ug/L		105	78 - 124
1,1,1-Trichloroethane	0.50	U	20.0	22.7		ug/L		114	74 - 131
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.7		ug/L		104	71 - 121
1,1,2-Trichloroethane	0.50	U	20.0	22.0		ug/L		110	80 - 119
1,1-Dichloroethane	0.50	U	20.0	22.7		ug/L		114	77 - 125
1,1-Dichloroethene	0.50	U	20.0	24.0		ug/L		120	71 - 131
1,1-Dichloropropene	0.50	U	20.0	23.5		ug/L		118	79 - 125
1,2,3-Trichlorobenzene	1.0	U	20.0	19.1		ug/L		95	69 - 129
1,2,3-Trichloropropane	0.50	U	20.0	20.5		ug/L		102	73 - 122
1,2,4-Trichlorobenzene	1.0	U	20.0	18.9		ug/L		95	69 - 130
1,2,4-Trimethylbenzene	2.0	U	20.0	22.0		ug/L		110	76 - 124
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	19.3		ug/L		97	62 - 128
1,2-Dibromoethane	0.50	U	20.0	20.5		ug/L		102	77 - 121
1,2-Dichlorobenzene	0.50	U	20.0	21.2		ug/L		106	80 - 119
1,2-Dichloroethane	0.50	U M	20.0	22.1		ug/L		110	73 - 128
1,2-Dichloropropane	0.50	U	20.0	22.3		ug/L		111	78 - 122
1,3,5-Trimethylbenzene	1.0	U	20.0	22.4		ug/L		112	75 - 124
1,3-Dichlorobenzene	0.50	U	20.0	21.6		ug/L		108	80 - 119
1,3-Dichloropropane	0.50	U	20.0	21.3		ug/L		107	80 - 119
1,4-Dichlorobenzene	0.50	U	20.0	21.8		ug/L		109	79 - 118
2,2-Dichloropropane	0.50	U	20.0	22.0		ug/L		110	60 - 139
2-Butanone	1.0	U	150	149		ug/L		100	56 - 143
2-Chlorotoluene	0.50	U	20.0	21.8		ug/L		109	79 - 122

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16197-1 MS

Matrix: Water

Analysis Batch: 54077

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	1.0	U	100	101		ug/L		101	57 - 139
4-Chlorotoluene	0.50	U	20.0	21.3		ug/L		106	78 - 122
4-Methyl-2-pentanone	1.0	U	100	98.7		ug/L		99	67 - 130
Acetone	2.0	U	150	174		ug/L		116	39 - 160
Acrolein	5.0	U	150	150		ug/L		101	39 - 155
Acrylonitrile	1.0	U	100	99.6		ug/L		100	63 - 135
Benzene	0.50	U	20.0	22.2		ug/L		111	42 - 138
Bromobenzene	0.50	U	20.0	21.1		ug/L		106	80 - 120
Bromochloromethane	0.50	U	20.0	19.8		ug/L		99	78 - 123
Bromodichloromethane	0.50	U	20.0	21.4		ug/L		107	79 - 125
Bromoform	2.0	U	20.0	16.7		ug/L		84	66 - 130
Bromomethane	0.50	U	20.0	17.7		ug/L		88	53 - 141
Carbon disulfide	0.50	U	20.0	24.0		ug/L		120	64 - 133
Carbon tetrachloride	0.50	U	20.0	22.5		ug/L		113	72 - 136
Chlorobenzene	0.50	U	20.0	22.2		ug/L		111	82 - 118
Chloroethane	0.50	U	20.0	15.7		ug/L		78	60 - 138
Chloroform	0.50	U	20.0	22.3		ug/L		111	79 - 124
Chloromethane	0.50	U Q	20.0	13.4		ug/L		67	50 - 139
cis-1,2-Dichloroethene	0.50	U	20.0	23.0		ug/L		115	78 - 123
cis-1,3-Dichloropropene	0.50	U	20.0	20.4		ug/L		102	75 - 124
Dibromochloromethane	0.50	U	20.0	20.8		ug/L		104	74 - 126
Dibromomethane	0.50	U	20.0	20.6		ug/L		103	79 - 123
Dichlorodifluoromethane	0.50	U	20.0	14.8		ug/L		74	32 - 152
Ethylbenzene	0.80	U	20.0	22.7		ug/L		114	79 - 121
Hexachlorobutadiene	4.0	U	20.0	18.0		ug/L		90	66 - 134
Isopropylbenzene	0.50	U	20.0	22.8		ug/L		114	72 - 131
m&p-Xylene	2.0	U	40.0	46.2		ug/L		115	80 - 121
Methyl tertiary butyl ether	0.50	U	20.0	19.1		ug/L		96	71 - 124
Methylene Chloride	0.50	U	20.0	22.5		ug/L		113	74 - 124
Naphthalene	2.0	U	20.0	20.1		ug/L		100	61 - 128
n-Butylbenzene	0.50	U	20.0	22.9		ug/L		114	75 - 128
N-Propylbenzene	0.50	U	20.0	23.2		ug/L		116	76 - 126
o-Xylene	0.80	U	20.0	22.3		ug/L		112	78 - 122
p-Isopropyltoluene	0.50	U	20.0	22.7		ug/L		113	77 - 127
sec-Butylbenzene	0.50	U	20.0	23.1		ug/L		116	77 - 126
Styrene	0.50	U	20.0	22.7		ug/L		114	78 - 123
tert-Butylbenzene	1.0	U	20.0	21.4		ug/L		107	78 - 124
Tetrachloroethene	0.50	U	20.0	21.9		ug/L		109	74 - 129
Toluene	0.50	U	20.0	22.5		ug/L		113	80 - 121
trans-1,2-Dichloroethene	0.50	U	20.0	22.4		ug/L		112	75 - 124
trans-1,3-Dichloropropene	0.50	U	20.0	20.2		ug/L		101	73 - 127
Trichloroethene	0.50	U	20.0	22.2		ug/L		111	79 - 123
Trichlorofluoromethane	0.50	U	20.0	18.7		ug/L		94	65 - 141
Vinyl chloride	0.50	U	20.0	16.2		ug/L		81	58 - 137
Xylenes, Total	2.0	U	60.0	68.5		ug/L		114	79 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		81 - 118

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16197-1 MS

Matrix: Water

Analysis Batch: 54077

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16197-1 MS

Matrix: Water

Analysis Batch: 54077

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	2.0	U	100	108		ug/L		108	54 - 146

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: 410-16197-1 MSD

Matrix: Water

Analysis Batch: 54077

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.0		ug/L		100	78 - 124	4	20
1,1,1-Trichloroethane	0.50	U	20.0	22.5	M	ug/L		113	74 - 131	1	20
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.4		ug/L		102	71 - 121	2	20
1,1,2-Trichloroethane	0.50	U	20.0	21.6		ug/L		108	80 - 119	2	20
1,1-Dichloroethane	0.50	U	20.0	22.5		ug/L		112	77 - 125	1	20
1,1-Dichloroethene	0.50	U	20.0	23.6		ug/L		118	71 - 131	2	20
1,1-Dichloropropene	0.50	U	20.0	23.4		ug/L		117	79 - 125	0	20
1,2,3-Trichlorobenzene	1.0	U	20.0	19.1		ug/L		95	69 - 129	0	20
1,2,3-Trichloropropane	0.50	U	20.0	20.3		ug/L		101	73 - 122	1	20
1,2,4-Trichlorobenzene	1.0	U	20.0	18.8		ug/L		94	69 - 130	1	20
1,2,4-Trimethylbenzene	2.0	U	20.0	21.8		ug/L		109	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	19.7		ug/L		98	62 - 128	2	20
1,2-Dibromoethane	0.50	U	20.0	20.0		ug/L		100	77 - 121	3	20
1,2-Dichlorobenzene	0.50	U	20.0	21.0		ug/L		105	80 - 119	1	20
1,2-Dichloroethane	0.50	U M	20.0	21.2		ug/L		106	73 - 128	4	20
1,2-Dichloropropane	0.50	U	20.0	22.2		ug/L		111	78 - 122	0	20
1,3,5-Trimethylbenzene	1.0	U	20.0	22.3		ug/L		112	75 - 124	1	20
1,3-Dichlorobenzene	0.50	U	20.0	21.2		ug/L		106	80 - 119	2	20
1,3-Dichloropropane	0.50	U	20.0	20.7		ug/L		104	80 - 119	3	20
1,4-Dichlorobenzene	0.50	U	20.0	21.5		ug/L		107	79 - 118	2	20
2,2-Dichloropropane	0.50	U	20.0	22.0		ug/L		110	60 - 139	0	20
2-Butanone	1.0	U	150	150		ug/L		100	56 - 143	0	20
2-Chlorotoluene	0.50	U	20.0	21.4		ug/L		107	79 - 122	2	20
2-Hexanone	1.0	U	100	99.2		ug/L		99	57 - 139	2	20
4-Chlorotoluene	0.50	U	20.0	21.2		ug/L		106	78 - 122	0	20
4-Methyl-2-pentanone	1.0	U	100	99.1		ug/L		99	67 - 130	0	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16197-1 MSD

Client Sample ID: GW235-472-204

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 54077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	2.0	U	150	176		ug/L		117	39 - 160	1	20
Acrolein	5.0	U	150	145		ug/L		97	39 - 155	4	20
Acrylonitrile	1.0	U	100	97.9		ug/L		98	63 - 135	2	20
Benzene	0.50	U	20.0	21.9		ug/L		110	42 - 138	1	20
Bromobenzene	0.50	U	20.0	20.8		ug/L		104	80 - 120	2	20
Bromochloromethane	0.50	U	20.0	18.7		ug/L		94	78 - 123	5	20
Bromodichloromethane	0.50	U	20.0	21.1		ug/L		105	79 - 125	2	20
Bromoform	2.0	U	20.0	16.1		ug/L		80	66 - 130	4	20
Bromomethane	0.50	U	20.0	16.7		ug/L		84	53 - 141	5	20
Carbon disulfide	0.50	U	20.0	23.8		ug/L		119	64 - 133	1	20
Carbon tetrachloride	0.50	U	20.0	22.4		ug/L		112	72 - 136	1	20
Chlorobenzene	0.50	U	20.0	21.6		ug/L		108	82 - 118	3	20
Chloroethane	0.50	U	20.0	15.9		ug/L		80	60 - 138	1	20
Chloroform	0.50	U	20.0	22.1		ug/L		110	79 - 124	1	20
Chloromethane	0.50	U Q	20.0	14.7		ug/L		73	50 - 139	10	20
cis-1,2-Dichloroethene	0.50	U	20.0	22.4		ug/L		112	78 - 123	3	20
cis-1,3-Dichloropropene	0.50	U	20.0	20.2		ug/L		101	75 - 124	1	20
Dibromochloromethane	0.50	U	20.0	19.7		ug/L		99	74 - 126	5	20
Dibromomethane	0.50	U	20.0	20.5		ug/L		103	79 - 123	0	20
Dichlorodifluoromethane	0.50	U	20.0	16.0	M	ug/L		80	32 - 152	8	20
Ethylbenzene	0.80	U	20.0	22.3		ug/L		111	79 - 121	2	20
Hexachlorobutadiene	4.0	U	20.0	18.2		ug/L		91	66 - 134	1	20
Isopropylbenzene	0.50	U	20.0	22.3		ug/L		112	72 - 131	2	20
m&p-Xylene	2.0	U	40.0	45.2		ug/L		113	80 - 121	2	20
Methyl tertiary butyl ether	0.50	U	20.0	19.3		ug/L		97	71 - 124	1	20
Methylene Chloride	0.50	U	20.0	22.0		ug/L		110	74 - 124	3	20
Naphthalene	2.0	U	20.0	20.2		ug/L		101	61 - 128	0	20
n-Butylbenzene	0.50	U	20.0	22.7		ug/L		114	75 - 128	1	20
N-Propylbenzene	0.50	U	20.0	23.1		ug/L		115	76 - 126	1	20
o-Xylene	0.80	U	20.0	21.9		ug/L		109	78 - 122	2	20
p-Isopropyltoluene	0.50	U	20.0	22.5		ug/L		112	77 - 127	1	20
sec-Butylbenzene	0.50	U	20.0	22.9		ug/L		115	77 - 126	1	20
Styrene	0.50	U	20.0	22.0		ug/L		110	78 - 123	3	20
tert-Butylbenzene	1.0	U	20.0	21.8		ug/L		109	78 - 124	2	20
Tetrachloroethene	0.50	U	20.0	21.0		ug/L		105	74 - 129	4	20
Toluene	0.50	U	20.0	21.9		ug/L		110	80 - 121	3	20
trans-1,2-Dichloroethene	0.50	U	20.0	22.3		ug/L		112	75 - 124	0	20
trans-1,3-Dichloropropene	0.50	U	20.0	19.9		ug/L		100	73 - 127	1	20
Trichloroethene	0.50	U	20.0	21.9		ug/L		110	79 - 123	1	20
Trichlorofluoromethane	0.50	U	20.0	18.5		ug/L		92	65 - 141	1	20
Vinyl chloride	0.50	U	20.0	16.2		ug/L		81	58 - 137	0	20
Xylenes, Total	2.0	U	60.0	67.1		ug/L		112	79 - 121	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16197-1 MSD

Matrix: Water

Analysis Batch: 54077

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	2.0	U	100	106		ug/L		106	54 - 146	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	108		81 - 118								
4-Bromofluorobenzene (Surr)	96		85 - 114								
Dibromofluoromethane (Surr)	97		80 - 119								
Toluene-d8 (Surr)	102		89 - 112								

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-53994/1-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53994

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac	
	Result	Qualifier								
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/15/20 18:56	1	
Surrogate	MB MB		Limits					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier								
1,1,2,2-Tetrachloroethane (1C)	114		46 - 136					10/13/20 20:59	10/15/20 18:56	1
1,1,2,2-Tetrachloroethane (2C)	107		46 - 136					10/13/20 20:59	10/15/20 18:56	1

Lab Sample ID: LCS 410-53994/2-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene Dibromide (1C)	0.128	0.144	M	ug/L		113	60 - 140		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136						

Lab Sample ID: LCSD 410-53994/3-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.145	M	ug/L		113	60 - 140	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136						

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 410-16197-1 MS

Matrix: Water

Analysis Batch: 54485

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Prep Batch: 53994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.015	J	0.124	0.140		ug/L		101	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136						

Lab Sample ID: 410-16197-1 MSD

Matrix: Water

Analysis Batch: 54485

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Prep Batch: 53994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.015	J	0.122	0.139	M	ug/L		101	60 - 140	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	101		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136								

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-52970/4

Matrix: Water

Analysis Batch: 52970

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/10/20 14:53	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/10/20 14:53	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/10/20 14:53	1

Lab Sample ID: LCS 410-52970/3

Matrix: Water

Analysis Batch: 52970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.02		mg/L		94	90 - 110
Chloride	3.00	2.80		mg/L		93	90 - 110
Sulfate	7.50	7.03		mg/L		94	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-51626/1-A

Matrix: Water

Analysis Batch: 54846

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51626

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 12:19	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 12:19	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-51626/2-A

Matrix: Water

Analysis Batch: 54846

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.451		mg/L		112	87 - 115
Manganese	0.0200	0.0219		mg/L		110	90 - 114

Lab Sample ID: MB 410-51591/1-A

Matrix: Water

Analysis Batch: 53515

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 51591

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/12/20 22:30	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/12/20 22:30	1
Potassium	0.38	U Q	0.50	0.38	0.20	mg/L		10/12/20 22:30	1
Sodium	0.50	U Q	1.0	0.50	0.24	mg/L		10/12/20 22:30	1

Lab Sample ID: LCS 410-51591/2-A

Matrix: Water

Analysis Batch: 53515

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 51591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.391		mg/L		98	87 - 113
Magnesium	0.200	0.192		mg/L		96	85 - 113

Lab Sample ID: LCS 410-51591/2-A

Matrix: Water

Analysis Batch: 53836

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 51591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.67		mg/L		101	86 - 114
Sodium	2.00	1.97		mg/L		99	87 - 115

Lab Sample ID: 410-16197-1 MS

Matrix: Water

Analysis Batch: 52848

Client Sample ID: GW235-472-204

Prep Type: Dissolved

Prep Batch: 51626

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U	0.402	0.393		mg/L		98	87 - 115
Manganese	0.0052	U	0.0200	0.0215		mg/L		108	90 - 114

Lab Sample ID: 410-16197-1 MSD

Matrix: Water

Analysis Batch: 52848

Client Sample ID: GW235-472-204

Prep Type: Dissolved

Prep Batch: 51626

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Iron	0.10	U	0.402	0.389		mg/L		97	87 - 115	1	20
Manganese	0.0052	U	0.0200	0.0219		mg/L		110	90 - 114	2	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-16197-1 DU

Matrix: Water

Analysis Batch: 52848

Client Sample ID: GW235-472-204

Prep Type: Dissolved

Prep Batch: 51626

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Iron	0.10	U	0.10	U	mg/L		NC	20
Manganese	0.0052	U	0.0052	U	mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-51587/1-A

Matrix: Water

Analysis Batch: 52403

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51587

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/08/20 11:05	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/08/20 11:05	1

Lab Sample ID: LCS 410-51587/2-A

Matrix: Water

Analysis Batch: 52403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0646		mg/L		108	84 - 116
Lead	0.0300	0.0320		mg/L		107	88 - 115

Lab Sample ID: 410-16197-1 MS

Matrix: Water

Analysis Batch: 52234

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Prep Batch: 51587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.000098	J	0.0300	0.0329		mg/L		110	88 - 118

Lab Sample ID: 410-16197-1 MS

Matrix: Water

Analysis Batch: 52403

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Prep Batch: 51587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00079	J1	0.0600	0.0656		mg/L		108	84 - 116

Lab Sample ID: 410-16197-1 MSD

Matrix: Water

Analysis Batch: 52234

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Prep Batch: 51587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	0.000098	J	0.0300	0.0341		mg/L		114	88 - 118	4	20

Lab Sample ID: 410-16197-1 MSD

Matrix: Water

Analysis Batch: 52403

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Prep Batch: 51587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.00079	J1	0.0600	0.0681		mg/L		112	84 - 116	4	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-16197-1 DU

Matrix: Water

Analysis Batch: 52234

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Prep Batch: 51587

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lead	0.000098	J	0.0000820	J	mg/L		18	20

Lab Sample ID: 410-16197-1 DU

Matrix: Water

Analysis Batch: 52403

Client Sample ID: GW235-472-204

Prep Type: Total/NA

Prep Batch: 51587

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	0.00079	J1	0.000804	J	mg/L		2	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-52446/101

Matrix: Water

Analysis Batch: 52446

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/08/20 05:19	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/08/20 05:19	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/08/20 05:19	1

Lab Sample ID: LCS 410-52446/102

Matrix: Water

Analysis Batch: 52446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	172		mg/L		91	82 - 106

Lab Sample ID: LCSD 410-52446/103

Matrix: Water

Analysis Batch: 52446

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Alkalinity as CaCO ₃ to pH 4.5	189	176		mg/L		93	82 - 106	2	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-57542/92

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 12:31	1

Lab Sample ID: LCS 410-57542/93

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.46		mg/L		98	90 - 110

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

GC/MS VOA

Analysis Batch: 54077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	8260C DOD	
410-16197-2	TB204-07	Total/NA	Water	8260C DOD	
MB 410-54077/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-54077/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-54077/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-54077/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-54077/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
410-16197-1 MS	GW235-472-204	Total/NA	Water	8260C DOD	
410-16197-1 MS	GW235-472-204	Total/NA	Water	8260C DOD	
410-16197-1 MSD	GW235-472-204	Total/NA	Water	8260C DOD	
410-16197-1 MSD	GW235-472-204	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 53994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	8011	
410-16197-2	TB204-07	Total/NA	Water	8011	
MB 410-53994/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-53994/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-53994/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-16197-1 MS	GW235-472-204	Total/NA	Water	8011	
410-16197-1 MSD	GW235-472-204	Total/NA	Water	8011	

Analysis Batch: 54485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	8011	53994
410-16197-2	TB204-07	Total/NA	Water	8011	53994
MB 410-53994/1-A	Method Blank	Total/NA	Water	8011	53994
LCS 410-53994/2-A	Lab Control Sample	Total/NA	Water	8011	53994
LCSD 410-53994/3-A	Lab Control Sample Dup	Total/NA	Water	8011	53994
410-16197-1 MS	GW235-472-204	Total/NA	Water	8011	53994
410-16197-1 MSD	GW235-472-204	Total/NA	Water	8011	53994

HPLC/IC

Analysis Batch: 52970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	EPA 300.0 R2.1	
410-16197-1	GW235-472-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-52970/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-52970/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 51587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	3020A	
MB 410-51587/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-51587/2-A	Lab Control Sample	Total/NA	Water	3020A	
410-16197-1 MS	GW235-472-204	Total/NA	Water	3020A	
410-16197-1 MSD	GW235-472-204	Total/NA	Water	3020A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Metals (Continued)

Prep Batch: 51587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1 DU	GW235-472-204	Total/NA	Water	3020A	

Prep Batch: 51591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total Recoverable	Water	3005A	
MB 410-51591/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-51591/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 51626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Dissolved	Water	Non-Digest Prep	
MB 410-51626/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-51626/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-16197-1 MS	GW235-472-204	Dissolved	Water	Non-Digest Prep	
410-16197-1 MSD	GW235-472-204	Dissolved	Water	Non-Digest Prep	
410-16197-1 DU	GW235-472-204	Dissolved	Water	Non-Digest Prep	

Analysis Batch: 52234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	6020A	51587
410-16197-1 MS	GW235-472-204	Total/NA	Water	6020A	51587
410-16197-1 MSD	GW235-472-204	Total/NA	Water	6020A	51587
410-16197-1 DU	GW235-472-204	Total/NA	Water	6020A	51587

Analysis Batch: 52403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	6020A	51587
MB 410-51587/1-A	Method Blank	Total/NA	Water	6020A	51587
LCS 410-51587/2-A	Lab Control Sample	Total/NA	Water	6020A	51587
410-16197-1 MS	GW235-472-204	Total/NA	Water	6020A	51587
410-16197-1 MSD	GW235-472-204	Total/NA	Water	6020A	51587
410-16197-1 DU	GW235-472-204	Total/NA	Water	6020A	51587

Analysis Batch: 52848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Dissolved	Water	6010C	51626
410-16197-1 MS	GW235-472-204	Dissolved	Water	6010C	51626
410-16197-1 MSD	GW235-472-204	Dissolved	Water	6010C	51626
410-16197-1 DU	GW235-472-204	Dissolved	Water	6010C	51626

Analysis Batch: 53515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total Recoverable	Water	6010C	51591
MB 410-51591/1-A	Method Blank	Total Recoverable	Water	6010C	51591
LCS 410-51591/2-A	Lab Control Sample	Total Recoverable	Water	6010C	51591

Analysis Batch: 53836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total Recoverable	Water	6010C	51591
LCS 410-51591/2-A	Lab Control Sample	Total Recoverable	Water	6010C	51591

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Metals

Analysis Batch: 53975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total Recoverable	Water	6010C	51591

Analysis Batch: 54846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-51626/1-A	Method Blank	Total/NA	Water	6010C	51626
LCS 410-51626/2-A	Lab Control Sample	Total/NA	Water	6010C	51626

General Chemistry

Analysis Batch: 52446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	2320B-2011	
MB 410-52446/101	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-52446/102	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-52446/103	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 57542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16197-1	GW235-472-204	Total/NA	Water	353.2	
MB 410-57542/92	Method Blank	Total/NA	Water	353.2	
LCS 410-57542/93	Lab Control Sample	Total/NA	Water	353.2	

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Client Sample ID: GW235-472-204

Lab Sample ID: 410-16197-1

Date Collected: 10/05/20 09:00

Matrix: Water

Date Received: 10/06/20 10:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54077	10/14/20 14:27	K4WN	ELLE
Total/NA	Prep	8011			53994	10/13/20 20:59	K2IL	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 20:20	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	52970	10/10/20 18:11	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	52970	10/10/20 18:29	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			51626	10/07/20 06:15	UJL8	ELLE
Dissolved	Analysis	6010C		1	52848	10/09/20 13:52	UPJE	ELLE
Total Recoverable	Prep	3005A			51591	10/07/20 03:00	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	53975	10/13/20 19:32	UCIG	ELLE
Total Recoverable	Prep	3005A			51591	10/07/20 03:00	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	53515	10/12/20 23:24	ULJC	ELLE
Total Recoverable	Prep	3005A			51591	10/07/20 03:00	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	53836	10/13/20 12:02	UPJE	ELLE
Total/NA	Prep	3020A			51587	10/07/20 02:37	UJL8	ELLE
Total/NA	Analysis	6020A		1	52234	10/07/20 17:19	V5SW	ELLE
Total/NA	Prep	3020A			51587	10/07/20 02:37	UJL8	ELLE
Total/NA	Analysis	6020A		1	52403	10/08/20 11:08	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	52446	10/08/20 06:23	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:31	KGQ6	ELLE

Client Sample ID: TB204-07

Lab Sample ID: 410-16197-2

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/06/20 10:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54077	10/14/20 13:21	K4WN	ELLE
Total/NA	Prep	8011			53994	10/13/20 20:59	K2IL	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 20:37	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB

Job ID: 410-16197-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-16197-1	GW235-472-204	Water	10/05/20 09:00	10/06/20 10:47	
410-16197-2	TB204-07	Water	10/05/20 14:00	10/06/20 10:47	

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410-16197 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-235-472-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tiamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As, Pb, Cd, K, Na, Mg (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS	
1	GW235-472-204	10-05-2020	0900	24	9	—	—	6	3	3*	1	1	1	—	—	Please see Comments for requested MS/MSD analytes
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe																
TB204-07																
SAMPLER(S): <i>G. Beggs</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5791												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: <i>Graham Beggs</i>				10-05-2020		1800		Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
								Nicole Reiff				10/6/20		1047		

JR

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EA		225 Schlang Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-TB204- 07			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020				QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ETEXN (8260C)	EDB (8011)	Total As, Pb, Cd, Cu, Ni, Mn (8010C)	Disolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (SM2320B)		
1	TB204- 07	10/5/2020	1400	4	2	—	2								
2															
3															
4															
5															
Associated with: GW235-472-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5791											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/5/2020	1800	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Reiff				10/6/20	1047				

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-16197-1

Login Number: 16197**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Rivera-Santa, Julissa**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-16365-1

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 1

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
12/18/2020 10:41:08 AM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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results through

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The
Expert**

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www.eurofinsus.com/Env

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
12/18/2020 10:41:08 AM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Job ID: 410-16365-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-16365-1

Revision

The report (revision 1) is being revised due to: The limits for the MS/MSD for Lead 6020A were corrected from 88-118% to 88-115% per the QSM.

In addition:

Method 6020A: The following report(s) required a revision: Upon further review of the data, it was observed that there was no primary results reporting for Prep batch 53285 from analytical batch 54702.

Analytical batch 54702 was set to Acceptable.

Receipt

The samples were received on 10/7/2020 10:46 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.6° C, 0.6° C, 0.9° C and 1.6° C.

GC/MS VOA

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW236-436-204 (410-16365-1), GW236-470-204 (410-16365-2), GW236-499-204 (410-16365-3), TB204-09 (410-16365-4), TB204-10 (410-16365-6), GW038-204 (410-16365-7), TB204-08 (410-16365-8), GW007-204 (410-16365-9), GW235-438-204 (410-16365-10), GW235-501-204 (410-16365-11) and TB204-06 (410-16365-12). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The response for Chloroethane, Chloromethane, Hexachlorobutadiene and Vinyl chloride in the continuing calibration verification (CCV) marginally exceeds, low-biased, the DoD acceptance criteria on batch 410-55770. Due to the marginal nature of the outlier(s), the data is reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: GW207-204 (410-16365-5). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-436-204

Lab Sample ID: 410-16365-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	40	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	50	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	42		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	6.2		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.2		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	23		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00086	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	93		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	93		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.84		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW236-470-204

Lab Sample ID: 410-16365-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	53	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	58	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	47		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	6.8		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	91		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	91		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.81		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW236-499-204

Lab Sample ID: 410-16365-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	53	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	63	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	51		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	7.2		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.8		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Lead	0.00017	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	85		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	85		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.89		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-09

Lab Sample ID: 410-16365-4

No Detections.

Client Sample ID: GW207-204

Lab Sample ID: 410-16365-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	77	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	50	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	58		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	8.2		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	95		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	95		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.4		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-10

Lab Sample ID: 410-16365-6

No Detections.

Client Sample ID: GW038-204

Lab Sample ID: 410-16365-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.3	J1	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	23	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	39	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	41		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	5.8		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	28		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Lead	0.000072	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.44		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-08

Lab Sample ID: 410-16365-8

No Detections.

Client Sample ID: GW007-204

Lab Sample ID: 410-16365-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.73	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Dichlorodifluoromethane	2.3		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Toluene	1.8		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	11	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	31	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW007-204 (Continued)

Lab Sample ID: 410-16365-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	53		0.20	0.15	0.096	mg/L	1			6010C	Total
											Recoverable
Magnesium	7.7		0.10	0.075	0.040	mg/L	1			6010C	Total
											Recoverable
Potassium	2.6		0.50	0.38	0.20	mg/L	1			6010C	Total
											Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1			6010C	Total
											Recoverable
Manganese	0.0031	J	0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.00071	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	180		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	180		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA

Client Sample ID: GW235-438-204

Lab Sample ID: 410-16365-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Tetrachloroethene	0.52	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Bromide	1.3	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	45	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	49	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	44		0.20	0.15	0.096	mg/L	1			6010C	Total
											Recoverable
Magnesium	6.5		0.10	0.075	0.040	mg/L	1			6010C	Total
											Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1			6010C	Total
											Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1			6010C	Total
											Recoverable
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	90		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	90		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW235-501-204

Lab Sample ID: 410-16365-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	1.4	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	58	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	64	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	55		0.20	0.15	0.096	mg/L	1			6010C	Total
											Recoverable
Magnesium	7.7		0.10	0.075	0.040	mg/L	1			6010C	Total
											Recoverable
Potassium	3.2		0.50	0.38	0.20	mg/L	1			6010C	Total
											Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1			6010C	Total
											Recoverable
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00015	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	86		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW235-501-204 (Continued)

Lab Sample ID: 410-16365-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	86		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-06

Lab Sample ID: 410-16365-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC



Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-436-204

Lab Sample ID: 410-16365-1

Date Collected: 10/05/20 11:30

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:49	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 17:49	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:49	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 17:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:49	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:49	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:49	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:49	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 17:49	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 17:49	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 17:49	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 17:49	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 17:49	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 17:49	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 17:49	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:49	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 17:49	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 17:49	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-436-204

Lab Sample ID: 410-16365-1

Date Collected: 10/05/20 11:30

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 17:49	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:49	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 17:49	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 17:49	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:49	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:49	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 17:49	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:49	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/12/20 17:49	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 17:49	1
Dibromofluoromethane (Surr)	95		80 - 119		10/12/20 17:49	1
Toluene-d8 (Surr)	98		89 - 112		10/12/20 17:49	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/15/20 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/13/20 20:59	10/15/20 20:54	1
1,1,2,2-Tetrachloroethane (2C)	102		46 - 136	10/13/20 20:59	10/15/20 20:54	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 14:52	5
Chloride	40	D	20	15	10	mg/L		10/13/20 15:10	50
Sulfate	50	D	5.0	4.5	1.5	mg/L		10/13/20 14:52	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	42		0.20	0.15	0.096	mg/L		10/18/20 17:47	1
Magnesium	6.2		0.10	0.075	0.040	mg/L		10/18/20 17:47	1
Potassium	3.2		0.50	0.38	0.20	mg/L		10/18/20 17:47	1
Sodium	23		1.0	0.50	0.24	mg/L		10/18/20 17:47	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 11:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-436-204

Lab Sample ID: 410-16365-1

Date Collected: 10/05/20 11:30

Matrix: Water

Date Received: 10/07/20 10:46

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L	—	10/20/20 11:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00086	J	0.0020	0.0016	0.00068	mg/L	—	10/13/20 14:24	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/13/20 14:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	93		8.0	6.0	8.0	mg/L	—	10/09/20 06:05	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/09/20 06:05	1
Total Alkalinity as CaCO ₃ to pH 4.5	93		8.0	6.0	8.0	mg/L	—	10/09/20 06:05	1
Nitrate Nitrite as N	0.84		0.10	0.090	0.040	mg/L	—	10/22/20 13:15	1

Client Sample ID: GW236-470-204

Lab Sample ID: 410-16365-2

Date Collected: 10/05/20 12:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/12/20 18:10	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/12/20 18:10	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/12/20 18:10	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/12/20 18:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/12/20 18:10	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/12/20 18:10	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/12/20 18:10	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/12/20 18:10	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/12/20 18:10	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/12/20 18:10	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 18:10	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/12/20 18:10	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/12/20 18:10	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/12/20 18:10	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/12/20 18:10	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 18:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-470-204

Lab Sample ID: 410-16365-2

Date Collected: 10/05/20 12:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 18:10	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 18:10	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 18:10	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 18:10	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 18:10	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 18:10	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 18:10	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 18:10	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:10	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 18:10	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 18:10	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:10	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/12/20 18:10	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 18:10	1
Dibromofluoromethane (Surr)	94		80 - 119		10/12/20 18:10	1
Toluene-d8 (Surr)	99		89 - 112		10/12/20 18:10	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 21:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-470-204

Lab Sample ID: 410-16365-2

Date Collected: 10/05/20 12:00

Matrix: Water

Date Received: 10/07/20 10:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/13/20 20:59	10/15/20 21:11	1
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136	10/13/20 20:59	10/15/20 21:11	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 16:05	5
Chloride	53	D	20	15	10	mg/L		10/13/20 16:23	50
Sulfate	58	D	5.0	4.5	1.5	mg/L		10/13/20 16:05	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	47		0.20	0.15	0.096	mg/L		10/18/20 17:50	1
Magnesium	6.8		0.10	0.075	0.040	mg/L		10/18/20 17:50	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/18/20 17:50	1
Sodium	22		1.0	0.50	0.24	mg/L		10/18/20 17:50	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 11:26	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/20/20 11:26	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:15	1
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L		10/13/20 14:15	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	91		8.0	6.0	8.0	mg/L		10/09/20 05:50	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 05:50	1
Total Alkalinity as CaCO ₃ to pH 4.5	91		8.0	6.0	8.0	mg/L		10/09/20 05:50	1
Nitrate Nitrite as N	0.81		0.10	0.090	0.040	mg/L		10/22/20 13:17	1

Client Sample ID: GW236-499-204

Lab Sample ID: 410-16365-3

Date Collected: 10/05/20 12:25

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 18:30	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 18:30	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 18:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 18:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 18:30	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-499-204

Lab Sample ID: 410-16365-3

Date Collected: 10/05/20 12:25

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 18:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 18:30	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 18:30	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 18:30	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 18:30	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 18:30	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 18:30	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 18:30	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 18:30	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 18:30	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 18:30	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 18:30	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 18:30	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 18:30	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 18:30	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 18:30	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 18:30	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 18:30	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 18:30	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-499-204

Lab Sample ID: 410-16365-3

Date Collected: 10/05/20 12:25

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 18:30	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 18:30	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/12/20 18:30	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 18:30	1
Dibromofluoromethane (Surr)	94		80 - 119		10/12/20 18:30	1
Toluene-d8 (Surr)	98		89 - 112		10/12/20 18:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/14/20 08:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	110		46 - 136	10/10/20 00:26	10/14/20 08:04	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/10/20 00:26	10/14/20 08:04	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 16:41	5
Chloride	53	D	20	15	10	mg/L		10/13/20 16:59	50
Sulfate	63	D	5.0	4.5	1.5	mg/L		10/13/20 16:41	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	51		0.20	0.15	0.096	mg/L		10/18/20 17:53	1
Magnesium	7.2		0.10	0.075	0.040	mg/L		10/18/20 17:53	1
Potassium	2.8		0.50	0.38	0.20	mg/L		10/18/20 17:53	1
Sodium	24		1.0	0.50	0.24	mg/L		10/18/20 17:53	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 15:03	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 15:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:10	1
Lead	0.00017	J	0.00050	0.00025	0.000071	mg/L		10/13/20 14:10	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	85		8.0	6.0	8.0	mg/L		10/09/20 05:58	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 05:58	1
Total Alkalinity as CaCO3 to pH 4.5	85		8.0	6.0	8.0	mg/L		10/09/20 05:58	1
Nitrate Nitrite as N	0.89		0.10	0.090	0.040	mg/L		10/22/20 13:21	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-09

Lab Sample ID: 410-16365-4

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:28	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 14:28	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 14:28	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 14:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 14:28	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:28	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 14:28	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:28	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 14:28	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 14:28	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 14:28	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 14:28	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 14:28	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 14:28	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 14:28	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:28	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 14:28	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 14:28	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-09

Lab Sample ID: 410-16365-4

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 14:28	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:28	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 14:28	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 14:28	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:28	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 14:28	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 14:28	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:28	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/12/20 14:28	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/12/20 14:28	1
Dibromofluoromethane (Surr)	95		80 - 119		10/12/20 14:28	1
Toluene-d8 (Surr)	98		89 - 112		10/12/20 14:28	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/14/20 08:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136	10/10/20 00:26	10/14/20 08:21	1
1,1,2,2-Tetrachloroethane (2C)	102		46 - 136	10/10/20 00:26	10/14/20 08:21	1

Client Sample ID: GW207-204

Lab Sample ID: 410-16365-5

Date Collected: 10/05/20 13:20

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:42	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 17:42	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 17:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW207-204

Lab Sample ID: 410-16365-5

Date Collected: 10/05/20 13:20

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 17:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 17:42	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 17:42	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:42	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 17:42	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 17:42	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 17:42	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 17:42	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 17:42	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 17:42	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 17:42	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:42	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Chloromethane	0.50	U Q J1	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 17:42	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 17:42	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 17:42	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:42	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 17:42	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 17:42	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW207-204

Lab Sample ID: 410-16365-5

Date Collected: 10/05/20 13:20

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 17:42	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 17:42	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 17:42	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		81 - 118		10/19/20 17:42	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 17:42	1
Dibromofluoromethane (Surr)	103		80 - 119		10/19/20 17:42	1
Toluene-d8 (Surr)	103		89 - 112		10/19/20 17:42	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/15/20 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136	10/10/20 00:55	10/15/20 00:03	1
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/10/20 00:55	10/15/20 00:03	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 17:17	5
Chloride	77	D	20	15	10	mg/L		10/13/20 17:35	50
Sulfate	50	D	5.0	4.5	1.5	mg/L		10/13/20 17:17	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	58		0.20	0.15	0.096	mg/L		10/18/20 17:43	1
Magnesium	8.2		0.10	0.075	0.040	mg/L		10/18/20 17:43	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/18/20 17:43	1
Sodium	24		1.0	0.50	0.24	mg/L		10/18/20 17:43	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 17:38	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 17:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:17	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 14:17	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	95		8.0	6.0	8.0	mg/L		10/09/20 02:06	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW207-204

Lab Sample ID: 410-16365-5

Date Collected: 10/05/20 13:20

Matrix: Water

Date Received: 10/07/20 10:46

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 02:06	1
Total Alkalinity as CaCO ₃ to pH 4.5	95		8.0	6.0	8.0	mg/L		10/09/20 02:06	1
Nitrate Nitrite as N	1.4		0.10	0.090	0.040	mg/L		10/22/20 13:22	1

Client Sample ID: TB204-10

Lab Sample ID: 410-16365-6

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:48	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 13:48	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 13:48	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 13:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 13:48	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:48	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 13:48	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:48	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 13:48	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 13:48	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 13:48	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 13:48	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 13:48	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 13:48	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 13:48	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:48	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-10

Lab Sample ID: 410-16365-6

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 13:48	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 13:48	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 13:48	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:48	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 13:48	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 13:48	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:48	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 13:48	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 13:48	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:48	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/12/20 13:48	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 13:48	1
Dibromofluoromethane (Surr)	94		80 - 119		10/12/20 13:48	1
Toluene-d8 (Surr)	99		89 - 112		10/12/20 13:48	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/15/20 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/13/20 20:59	10/15/20 21:27	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/13/20 20:59	10/15/20 21:27	1

Client Sample ID: GW038-204

Lab Sample ID: 410-16365-7

Date Collected: 10/05/20 12:21

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW038-204

Lab Sample ID: 410-16365-7

Date Collected: 10/05/20 12:21

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 15:08	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,1-Dichloroethene	0.50	U J1	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 15:08	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 15:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 15:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 15:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 15:08	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 15:08	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 15:08	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 15:08	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 15:08	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 15:08	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 15:08	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 15:08	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 15:08	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 15:08	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 15:08	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 15:08	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 15:08	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 15:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW038-204

Lab Sample ID: 410-16365-7

Date Collected: 10/05/20 12:21

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 15:08	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 15:08	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 15:08	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 15:08	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 15:08	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Toluene	1.3	J1	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 15:08	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 15:08	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/12/20 15:08	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 15:08	1
Dibromofluoromethane (Surr)	95		80 - 119		10/12/20 15:08	1
Toluene-d8 (Surr)	98		89 - 112		10/12/20 15:08	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/14/20 22:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136	10/13/20 21:04	10/14/20 22:56	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/13/20 21:04	10/14/20 22:56	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 10:32	5
Chloride	23	D	2.0	1.5	1.0	mg/L		10/13/20 10:32	5
Sulfate	39	D	5.0	4.5	1.5	mg/L		10/13/20 10:32	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	41		0.20	0.15	0.096	mg/L		10/18/20 17:40	1
Magnesium	5.8		0.10	0.075	0.040	mg/L		10/18/20 17:40	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/18/20 17:40	1
Sodium	28		1.0	0.50	0.24	mg/L		10/18/20 17:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 18:07	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 18:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW038-204

Lab Sample ID: 410-16365-7

Date Collected: 10/05/20 12:21

Matrix: Water

Date Received: 10/07/20 10:46

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:39	1
Lead	0.000072	J	0.00050	0.00025	0.000071	mg/L		10/13/20 14:39	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/09/20 01:58	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 01:58	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/09/20 01:58	1
Nitrate Nitrite as N	0.44		0.10	0.090	0.040	mg/L		10/22/20 13:23	1

Client Sample ID: TB204-08

Lab Sample ID: 410-16365-8

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:08	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 14:08	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 14:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 14:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 14:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:08	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 14:08	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:08	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 14:08	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 14:08	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 14:08	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 14:08	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 14:08	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 14:08	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 14:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-08

Lab Sample ID: 410-16365-8

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:08	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 14:08	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 14:08	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 14:08	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 14:08	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 14:08	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 14:08	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 14:08	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 14:08	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 14:08	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 14:08	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/12/20 14:08	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/12/20 14:08	1
Dibromofluoromethane (Surr)	94		80 - 119		10/12/20 14:08	1
Toluene-d8 (Surr)	99		89 - 112		10/12/20 14:08	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/14/20 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	98		46 - 136	10/13/20 21:04	10/14/20 23:13	1
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136	10/13/20 21:04	10/14/20 23:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW007-204

Lab Sample ID: 410-16365-9

Date Collected: 10/05/20 09:45

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 16:48	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 16:48	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 16:48	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 16:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 16:48	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 16:48	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 16:48	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 16:48	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 16:48	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 16:48	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 16:48	1
Acetone	0.73	J	20	2.0	0.70	ug/L		10/12/20 16:48	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 16:48	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 16:48	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 16:48	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 16:48	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Dichlorodifluoromethane	2.3		1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 16:48	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 16:48	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW007-204

Lab Sample ID: 410-16365-9

Date Collected: 10/05/20 09:45

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 16:48	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 16:48	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 16:48	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 16:48	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 16:48	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 16:48	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Toluene	1.8		1.0	0.50	0.20	ug/L		10/12/20 16:48	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 16:48	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 16:48	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/12/20 16:48	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 16:48	1
Dibromofluoromethane (Surr)	94		80 - 119		10/12/20 16:48	1
Toluene-d8 (Surr)	98		89 - 112		10/12/20 16:48	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/14/20 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	112		46 - 136	10/10/20 00:26	10/14/20 08:38	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/10/20 00:26	10/14/20 08:38	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 08:15	5
Chloride	11	D	2.0	1.5	1.0	mg/L		10/13/20 08:15	5
Sulfate	31	D	5.0	4.5	1.5	mg/L		10/13/20 08:15	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	53		0.20	0.15	0.096	mg/L		10/18/20 17:30	1
Magnesium	7.7		0.10	0.075	0.040	mg/L		10/18/20 17:30	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/18/20 17:30	1
Sodium	25		1.0	0.50	0.24	mg/L		10/18/20 17:30	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 16:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW007-204

Lab Sample ID: 410-16365-9

Date Collected: 10/05/20 09:45

Matrix: Water

Date Received: 10/07/20 10:46

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0031	J	0.010	0.0052	0.0031	mg/L	—	10/15/20 16:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00071	J	0.0020	0.0016	0.00068	mg/L	—	10/15/20 13:18	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/15/20 13:18	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	180		8.0	6.0	8.0	mg/L	—	10/09/20 01:25	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/09/20 01:25	1
Total Alkalinity as CaCO ₃ to pH 4.5	180		8.0	6.0	8.0	mg/L	—	10/09/20 01:25	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L	—	10/22/20 13:24	1

Client Sample ID: GW235-438-204

Lab Sample ID: 410-16365-10

Date Collected: 10/05/20 10:15

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/12/20 17:09	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/12/20 17:09	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/12/20 17:09	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/12/20 17:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/12/20 17:09	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/12/20 17:09	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/12/20 17:09	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/12/20 17:09	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/12/20 17:09	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/12/20 17:09	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/12/20 17:09	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/12/20 17:09	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/12/20 17:09	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/12/20 17:09	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/12/20 17:09	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/12/20 17:09	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW235-438-204

Lab Sample ID: 410-16365-10

Date Collected: 10/05/20 10:15

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 17:09	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:09	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 17:09	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 17:09	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 17:09	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:09	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 17:09	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 17:09	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:09	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:09	1
Tetrachloroethene	0.52	J	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 17:09	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:09	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/12/20 17:09	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/12/20 17:09	1
Dibromofluoromethane (Surr)	94		80 - 119		10/12/20 17:09	1
Toluene-d8 (Surr)	98		89 - 112		10/12/20 17:09	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/14/20 08:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW235-438-204

Lab Sample ID: 410-16365-10

Date Collected: 10/05/20 10:15

Matrix: Water

Date Received: 10/07/20 10:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136	10/10/20 00:26	10/14/20 08:54	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/10/20 00:26	10/14/20 08:54	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.3	J D	2.5	2.0	1.3	mg/L		10/13/20 08:49	5
Chloride	45	D	20	15	10	mg/L		10/13/20 09:07	50
Sulfate	49	D	5.0	4.5	1.5	mg/L		10/13/20 08:49	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	44		0.20	0.15	0.096	mg/L		10/18/20 17:37	1
Magnesium	6.5		0.10	0.075	0.040	mg/L		10/18/20 17:37	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/18/20 17:37	1
Sodium	22		1.0	0.50	0.24	mg/L		10/18/20 17:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 16:54	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 16:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L		10/13/20 14:08	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 14:08	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	90		8.0	6.0	8.0	mg/L		10/09/20 02:14	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 02:14	1
Total Alkalinity as CaCO ₃ to pH 4.5	90		8.0	6.0	8.0	mg/L		10/09/20 02:14	1
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L		10/22/20 13:26	1

Client Sample ID: GW235-501-204

Lab Sample ID: 410-16365-11

Date Collected: 10/05/20 10:45

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:29	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 17:29	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:29	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 17:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:29	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW235-501-204

Lab Sample ID: 410-16365-11

Date Collected: 10/05/20 10:45

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:29	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:29	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:29	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 17:29	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 17:29	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 17:29	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 17:29	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 17:29	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 17:29	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 17:29	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:29	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 17:29	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 17:29	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 17:29	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 17:29	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 17:29	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 17:29	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 17:29	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 17:29	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW235-501-204

Lab Sample ID: 410-16365-11

Date Collected: 10/05/20 10:45

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 17:29	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 17:29	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/12/20 17:29	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 17:29	1
Dibromofluoromethane (Surr)	94		80 - 119		10/12/20 17:29	1
Toluene-d8 (Surr)	99		89 - 112		10/12/20 17:29	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/14/20 09:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	117		46 - 136	10/10/20 00:26	10/14/20 09:11	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/10/20 00:26	10/14/20 09:11	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.4	J D	2.5	2.0	1.3	mg/L		10/13/20 09:24	5
Chloride	58	D	20	15	10	mg/L		10/13/20 10:15	50
Sulfate	64	D	5.0	4.5	1.5	mg/L		10/13/20 09:24	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	55		0.20	0.15	0.096	mg/L		10/18/20 17:33	1
Magnesium	7.7		0.10	0.075	0.040	mg/L		10/18/20 17:33	1
Potassium	3.2		0.50	0.38	0.20	mg/L		10/18/20 17:33	1
Sodium	26		1.0	0.50	0.24	mg/L		10/18/20 17:33	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 17:08	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 17:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L		10/15/20 13:20	1
Lead	0.00015	J	0.00050	0.00025	0.000071	mg/L		10/15/20 13:20	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	86		8.0	6.0	8.0	mg/L		10/09/20 01:51	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 01:51	1
Total Alkalinity as CaCO3 to pH 4.5	86		8.0	6.0	8.0	mg/L		10/09/20 01:51	1
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L		10/22/20 13:29	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-06

Lab Sample ID: 410-16365-12

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 13:27	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 13:27	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 13:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 13:27	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:27	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 13:27	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:27	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 13:27	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 13:27	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 13:27	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 13:27	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 13:27	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 13:27	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 13:27	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:27	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 13:27	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 13:27	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-06

Lab Sample ID: 410-16365-12

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 13:27	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 13:27	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 13:27	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 13:27	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 13:27	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 13:27	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 13:27	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 13:27	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/12/20 13:27	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 13:27	1
Dibromofluoromethane (Surr)	94		80 - 119		10/12/20 13:27	1
Toluene-d8 (Surr)	99		89 - 112		10/12/20 13:27	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/14/20 09:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	112		46 - 136	10/10/20 00:26	10/14/20 09:28	1
1,1,2,2-Tetrachloroethane (2C)	102		46 - 136	10/10/20 00:26	10/14/20 09:28	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(81-118)	(85-114)	(80-119)	(89-112)
410-16365-1	GW236-436-204	100	95	95	98
410-16365-2	GW236-470-204	98	95	94	99
410-16365-3	GW236-499-204	98	95	94	98
410-16365-4	TB204-09	100	94	95	98
410-16365-5	GW207-204	118	96	103	103
410-16365-5 MS	GW207-204	117	101	102	103
410-16365-5 MS	GW207-204	118	96	100	103
410-16365-5 MSD	GW207-204	117	100	101	104
410-16365-5 MSD	GW207-204	115	95	98	103
410-16365-6	TB204-10	98	95	94	99
410-16365-7	GW038-204	101	95	95	98
410-16365-7 MS	GW038-204	97	96	95	99
410-16365-7 MS	GW038-204	99	94	94	99
410-16365-7 MSD	GW038-204	99	96	94	99
410-16365-7 MSD	GW038-204	98	94	94	99
410-16365-8	TB204-08	99	94	94	99
410-16365-9	GW007-204	101	95	94	98
410-16365-10	GW235-438-204	100	94	94	98
410-16365-11	GW235-501-204	98	95	94	99
410-16365-12	TB204-06	100	95	94	99
LCS 410-53171/6	Lab Control Sample	99	96	95	100
LCS 410-53171/7	Lab Control Sample	100	95	95	99
LCS 410-55770/6	Lab Control Sample	116	100	100	103
LCS 410-55770/9	Lab Control Sample	114	96	99	103
LCSD 410-55770/10	Lab Control Sample Dup	116	97	100	103
LCSD 410-55770/8	Lab Control Sample Dup	115	99	101	104
MB 410-53171/9	Method Blank	100	95	95	99
MB 410-55770/12	Method Blank	116	97	102 M	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-16365-1	GW236-436-204	104	102
410-16365-2	GW236-470-204	104	94
410-16365-3	GW236-499-204	110	96
410-16365-4	TB204-09	105	102
410-16365-5	GW207-204	99	89
410-16365-5 MS	GW207-204	100	85
410-16365-5 MSD	GW207-204	99	91
410-16365-6	TB204-10	97	95
410-16365-7	GW038-204	105	100

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Surrogate Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-16365-7 MS	GW038-204	101 M	100
410-16365-7 MSD	GW038-204	105	97
410-16365-8	TB204-08	98	94
410-16365-9	GW007-204	112	91
410-16365-10	GW235-438-204	96	93
410-16365-11	GW235-501-204	117	98
410-16365-12	TB204-06	112	102
LCS 410-52948/2-A	Lab Control Sample	105	95
LCS 410-52949/2-A	Lab Control Sample	104	95
LCS 410-53994/2-A	Lab Control Sample	100	98
LCS 410-53995/2-A	Lab Control Sample	106	101
LCSD 410-52948/3-A	Lab Control Sample Dup	112	100
LCSD 410-52949/3-A	Lab Control Sample Dup	109	99
LCSD 410-53994/3-A	Lab Control Sample Dup	103	97
LCSD 410-53995/3-A	Lab Control Sample Dup	104	99
MB 410-52948/1-A	Method Blank	109	100
MB 410-52949/1-A	Method Blank	105	99
MB 410-53994/1-A	Method Blank	114	107
MB 410-53995/1-A	Method Blank	98 M	98

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-53171/9

Matrix: Water

Analysis Batch: 53171

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 12:42	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/12/20 12:42	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 12:42	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 12:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 12:42	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 12:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 12:42	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 12:42	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 12:42	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/12/20 12:42	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/12/20 12:42	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/12/20 12:42	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/12/20 12:42	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/12/20 12:42	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/12/20 12:42	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 12:42	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 12:42	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/12/20 12:42	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-53171/9

Matrix: Water

Analysis Batch: 53171

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 12:42	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/12/20 12:42	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/12/20 12:42	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/12/20 12:42	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/12/20 12:42	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/12/20 12:42	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/12/20 12:42	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/12/20 12:42	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/12/20 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/12/20 12:42	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/12/20 12:42	1
Dibromofluoromethane (Surr)	95		80 - 119		10/12/20 12:42	1
Toluene-d8 (Surr)	99		89 - 112		10/12/20 12:42	1

Lab Sample ID: LCS 410-53171/6

Matrix: Water

Analysis Batch: 53171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.9		ug/L		100	78 - 124
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	71 - 121
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.9		ug/L		104	77 - 125
1,1-Dichloroethene	20.0	22.6		ug/L		113	71 - 131
1,1-Dichloropropene	20.0	21.2		ug/L		106	79 - 125
1,2,3-Trichlorobenzene	20.0	20.5		ug/L		103	69 - 129
1,2,3-Trichloropropane	20.0	19.3		ug/L		97	73 - 122
1,2,4-Trichlorobenzene	20.0	20.6		ug/L		103	69 - 130
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		102	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119
1,2-Dichloroethane	20.0	18.3		ug/L		91	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-53171/6

Matrix: Water

Analysis Batch: 53171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.5		ug/L		107	78 - 122
1,3,5-Trimethylbenzene	20.0	20.9		ug/L		105	75 - 124
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119
1,3-Dichloropropane	20.0	19.7		ug/L		98	80 - 119
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	79 - 118
2,2-Dichloropropane	20.0	19.2		ug/L		96	60 - 139
2-Butanone	150	149		ug/L		99	56 - 143
2-Chlorotoluene	20.0	21.1		ug/L		106	79 - 122
2-Hexanone	100	95.6		ug/L		96	57 - 139
4-Chlorotoluene	20.0	21.1		ug/L		106	78 - 122
4-Methyl-2-pentanone	100	97.9		ug/L		98	67 - 130
Acetone	150	171		ug/L		114	39 - 160
Acrolein	150	142		ug/L		95	39 - 155
Acrylonitrile	100	106		ug/L		106	63 - 135
Benzene	20.0	21.2		ug/L		106	42 - 138
Bromobenzene	20.0	20.9		ug/L		104	80 - 120
Bromochloromethane	20.0	19.9		ug/L		99	78 - 123
Bromodichloromethane	20.0	19.6		ug/L		98	79 - 125
Bromoform	20.0	19.1		ug/L		95	66 - 130
Bromomethane	20.0	19.0		ug/L		95	53 - 141
Carbon disulfide	20.0	22.0		ug/L		110	64 - 133
Carbon tetrachloride	20.0	19.5		ug/L		97	72 - 136
Chlorobenzene	20.0	20.8		ug/L		104	82 - 118
Chloroethane	20.0	18.2		ug/L		91	60 - 138
Chloroform	20.0	20.1		ug/L		101	79 - 124
Chloromethane	20.0	16.0		ug/L		80	50 - 139
cis-1,2-Dichloroethene	20.0	22.2		ug/L		111	78 - 123
cis-1,3-Dichloropropene	20.0	19.7		ug/L		99	75 - 124
Dibromochloromethane	20.0	19.5		ug/L		97	74 - 126
Dibromomethane	20.0	19.9		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	16.6		ug/L		83	32 - 152
Ethylbenzene	20.0	20.9		ug/L		105	79 - 121
Hexachlorobutadiene	20.0	20.2		ug/L		101	66 - 134
Isopropylbenzene	20.0	21.1		ug/L		105	72 - 131
m&p-Xylene	40.0	42.4		ug/L		106	80 - 121
Methyl tertiary butyl ether	20.0	18.8		ug/L		94	71 - 124
Methylene Chloride	20.0	21.6		ug/L		108	74 - 124
Naphthalene	20.0	20.0		ug/L		100	61 - 128
n-Butylbenzene	20.0	20.6		ug/L		103	75 - 128
N-Propylbenzene	20.0	22.0		ug/L		110	76 - 126
o-Xylene	20.0	20.8		ug/L		104	78 - 122
p-Isopropyltoluene	20.0	21.3		ug/L		107	77 - 127
sec-Butylbenzene	20.0	21.3		ug/L		107	77 - 126
Styrene	20.0	20.7		ug/L		104	78 - 123
tert-Butylbenzene	20.0	19.9		ug/L		100	78 - 124
Tetrachloroethene	20.0	22.3		ug/L		111	74 - 129
Toluene	20.0	21.3		ug/L		106	80 - 121
trans-1,2-Dichloroethene	20.0	22.0		ug/L		110	75 - 124
trans-1,3-Dichloropropene	20.0	18.6		ug/L		93	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-53171/6

Matrix: Water

Analysis Batch: 53171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	21.0		ug/L		105	79 - 123
Trichlorofluoromethane	20.0	19.1		ug/L		96	65 - 141
Vinyl chloride	20.0	18.2		ug/L		91	58 - 137
Xylenes, Total	60.0	63.2		ug/L		105	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-53171/7

Matrix: Water

Analysis Batch: 53171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	105		ug/L		105	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: 410-16365-7 MS

Matrix: Water

Analysis Batch: 53171

Client Sample ID: GW038-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.7		ug/L		104	78 - 124
1,1,1-Trichloroethane	0.50	U	20.0	22.0		ug/L		110	74 - 131
1,1,2,2-Tetrachloroethane	0.50	U	20.0	21.0		ug/L		105	71 - 121
1,1,2-Trichloroethane	0.50	U	20.0	21.7		ug/L		108	80 - 119
1,1-Dichloroethane	0.50	U	20.0	22.4		ug/L		112	77 - 125
1,1-Dichloroethene	0.50	U J1	20.0	25.8		ug/L		129	71 - 131
1,1-Dichloropropene	0.50	U	20.0	23.7		ug/L		119	79 - 125
1,2,3-Trichlorobenzene	1.0	U	20.0	21.2		ug/L		106	69 - 129
1,2,3-Trichloropropane	0.50	U	20.0	20.3		ug/L		102	73 - 122
1,2,4-Trichlorobenzene	1.0	U	20.0	21.2		ug/L		106	69 - 130
1,2,4-Trimethylbenzene	2.0	U	20.0	21.6		ug/L		108	76 - 124
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	19.0		ug/L		95	62 - 128
1,2-Dibromoethane	0.50	U	20.0	20.1		ug/L		101	77 - 121
1,2-Dichlorobenzene	0.50	U	20.0	21.7		ug/L		109	80 - 119
1,2-Dichloroethane	0.50	U	20.0	19.2		ug/L		96	73 - 128
1,2-Dichloropropane	0.50	U	20.0	22.5		ug/L		112	78 - 122
1,3,5-Trimethylbenzene	1.0	U	20.0	22.2		ug/L		111	75 - 124
1,3-Dichlorobenzene	0.50	U	20.0	21.7		ug/L		108	80 - 119
1,3-Dichloropropane	0.50	U	20.0	20.6		ug/L		103	80 - 119

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16365-7 MS

Matrix: Water

Analysis Batch: 53171

Client Sample ID: GW038-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.50	U	20.0	22.0		ug/L		110	79 - 118
2,2-Dichloropropane	0.50	U	20.0	21.7		ug/L		109	60 - 139
2-Butanone	1.0	U	150	147		ug/L		98	56 - 143
2-Chlorotoluene	0.50	U	20.0	22.4		ug/L		112	79 - 122
2-Hexanone	1.0	U	100	96.7		ug/L		97	57 - 139
4-Chlorotoluene	0.50	U	20.0	22.5		ug/L		113	78 - 122
4-Methyl-2-pentanone	1.0	U	100	98.3		ug/L		98	67 - 130
Acetone	2.0	U	150	177		ug/L		118	39 - 160
Acrolein	5.0	U	150	147		ug/L		98	39 - 155
Acrylonitrile	1.0	U	100	105		ug/L		105	63 - 135
Benzene	0.50	U	20.0	22.7		ug/L		113	42 - 138
Bromobenzene	0.50	U	20.0	21.9		ug/L		110	80 - 120
Bromochloromethane	0.50	U	20.0	20.5		ug/L		103	78 - 123
Bromodichloromethane	0.50	U	20.0	20.6		ug/L		103	79 - 125
Bromoform	2.0	U	20.0	19.2		ug/L		96	66 - 130
Bromomethane	0.50	U	20.0	19.5		ug/L		97	53 - 141
Carbon disulfide	0.50	U	20.0	24.8		ug/L		124	64 - 133
Carbon tetrachloride	0.50	U	20.0	21.5		ug/L		107	72 - 136
Chlorobenzene	0.50	U	20.0	22.5		ug/L		112	82 - 118
Chloroethane	0.50	U	20.0	19.7		ug/L		98	60 - 138
Chloroform	0.50	U	20.0	21.6		ug/L		108	79 - 124
Chloromethane	0.50	U	20.0	17.0		ug/L		85	50 - 139
cis-1,2-Dichloroethene	0.50	U	20.0	23.6		ug/L		118	78 - 123
cis-1,3-Dichloropropene	0.50	U	20.0	20.4		ug/L		102	75 - 124
Dibromochloromethane	0.50	U	20.0	20.3		ug/L		101	74 - 126
Dibromomethane	0.50	U	20.0	20.1		ug/L		101	79 - 123
Dichlorodifluoromethane	0.50	U	20.0	18.7		ug/L		94	32 - 152
Ethylbenzene	0.80	U	20.0	22.6		ug/L		113	79 - 121
Hexachlorobutadiene	4.0	U	20.0	22.8		ug/L		114	66 - 134
Isopropylbenzene	0.50	U	20.0	23.0		ug/L		115	72 - 131
m&p-Xylene	2.0	U	40.0	45.7		ug/L		114	80 - 121
Methyl tertiary butyl ether	0.50	U	20.0	19.2		ug/L		96	71 - 124
Methylene Chloride	0.50	U	20.0	22.8		ug/L		114	74 - 124
Naphthalene	2.0	U	20.0	20.1		ug/L		101	61 - 128
n-Butylbenzene	0.50	U	20.0	22.7		ug/L		114	75 - 128
N-Propylbenzene	0.50	U	20.0	23.6		ug/L		118	76 - 126
o-Xylene	0.80	U	20.0	22.3		ug/L		112	78 - 122
p-Isopropyltoluene	0.50	U	20.0	22.9		ug/L		114	77 - 127
sec-Butylbenzene	0.50	U	20.0	23.4		ug/L		117	77 - 126
Styrene	0.50	U	20.0	22.2		ug/L		111	78 - 123
tert-Butylbenzene	1.0	U	20.0	21.8		ug/L		109	78 - 124
Tetrachloroethene	0.50	U	20.0	23.8		ug/L		119	74 - 129
Toluene	1.3	J1	20.0	24.3		ug/L		115	80 - 121
trans-1,2-Dichloroethene	0.50	U	20.0	23.8		ug/L		119	75 - 124
trans-1,3-Dichloropropene	0.50	U	20.0	19.3		ug/L		97	73 - 127
Trichloroethene	0.50	U	20.0	22.7		ug/L		114	79 - 123
Trichlorofluoromethane	0.50	U	20.0	21.8		ug/L		109	65 - 141
Vinyl chloride	0.50	U	20.0	20.3		ug/L		102	58 - 137
Xylenes, Total	2.0	U	60.0	68.0		ug/L		113	79 - 121

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: 410-16365-7 MS
Matrix: Water
Analysis Batch: 53171

Client Sample ID: GW038-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	2.0	U	100	106		ug/L		106	54 - 146

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	94		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: 410-16365-7 MSD
Matrix: Water
Analysis Batch: 53171

Client Sample ID: GW038-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.50	U	20.0	21.9		ug/L		109	78 - 124	5	20
1,1,1-Trichloroethane	0.50	U	20.0	22.9		ug/L		114	74 - 131	4	20
1,1,2,2-Tetrachloroethane	0.50	U	20.0	22.3		ug/L		112	71 - 121	6	20
1,1,2-Trichloroethane	0.50	U	20.0	23.0		ug/L		115	80 - 119	6	20
1,1-Dichloroethane	0.50	U	20.0	23.6		ug/L		118	77 - 125	5	20
1,1-Dichloroethene	0.50	U J1	20.0	27.2	J1	ug/L		136	71 - 131	5	20
1,1-Dichloropropene	0.50	U	20.0	25.1		ug/L		125	79 - 125	6	20
1,2,3-Trichlorobenzene	1.0	U	20.0	22.6		ug/L		113	69 - 129	7	20
1,2,3-Trichloropropane	0.50	U	20.0	21.4		ug/L		107	73 - 122	5	20
1,2,4-Trichlorobenzene	1.0	U	20.0	22.9		ug/L		114	69 - 130	8	20
1,2,4-Trimethylbenzene	2.0	U	20.0	23.0		ug/L		115	76 - 124	6	20
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	20.2		ug/L		101	62 - 128	6	20
1,2-Dibromoethane	0.50	U	20.0	21.4		ug/L		107	77 - 121	6	20
1,2-Dichlorobenzene	0.50	U	20.0	23.1		ug/L		116	80 - 119	6	20
1,2-Dichloroethane	0.50	U	20.0	20.0		ug/L		100	73 - 128	4	20
1,2-Dichloropropane	0.50	U	20.0	23.6		ug/L		118	78 - 122	5	20
1,3,5-Trimethylbenzene	1.0	U	20.0	23.6		ug/L		118	75 - 124	6	20
1,3-Dichlorobenzene	0.50	U	20.0	23.2		ug/L		116	80 - 119	7	20
1,3-Dichloropropane	0.50	U	20.0	21.6		ug/L		108	80 - 119	4	20
1,4-Dichlorobenzene	0.50	U	20.0	23.5		ug/L		118	79 - 118	7	20
2,2-Dichloropropane	0.50	U	20.0	23.0		ug/L		115	60 - 139	6	20
2-Butanone	1.0	U	150	155		ug/L		103	56 - 143	5	20
2-Chlorotoluene	0.50	U	20.0	23.8		ug/L		119	79 - 122	6	20
2-Hexanone	1.0	U	100	103		ug/L		103	57 - 139	6	20
4-Chlorotoluene	0.50	U	20.0	23.8		ug/L		119	78 - 122	5	20
4-Methyl-2-pentanone	1.0	U	100	104		ug/L		104	67 - 130	5	20
Acetone	2.0	U	150	198		ug/L		132	39 - 160	11	20
Acrolein	5.0	U	150	161		ug/L		108	39 - 155	9	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16365-7 MSD

Matrix: Water

Analysis Batch: 53171

Client Sample ID: GW038-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrylonitrile	1.0	U	100	112		ug/L		112	63 - 135	6	20
Benzene	0.50	U	20.0	23.8		ug/L		119	42 - 138	5	20
Bromobenzene	0.50	U	20.0	23.3		ug/L		117	80 - 120	6	20
Bromochloromethane	0.50	U	20.0	21.0		ug/L		105	78 - 123	2	20
Bromodichloromethane	0.50	U	20.0	21.5		ug/L		108	79 - 125	4	20
Bromoform	2.0	U	20.0	20.4		ug/L		102	66 - 130	6	20
Bromomethane	0.50	U	20.0	20.9		ug/L		104	53 - 141	7	20
Carbon disulfide	0.50	U	20.0	25.7		ug/L		129	64 - 133	4	20
Carbon tetrachloride	0.50	U	20.0	22.8		ug/L		114	72 - 136	6	20
Chlorobenzene	0.50	U	20.0	23.6		ug/L		118	82 - 118	5	20
Chloroethane	0.50	U	20.0	20.3		ug/L		101	60 - 138	3	20
Chloroform	0.50	U	20.0	22.6		ug/L		113	79 - 124	4	20
Chloromethane	0.50	U	20.0	17.9		ug/L		90	50 - 139	6	20
cis-1,2-Dichloroethene	0.50	U	20.0	24.7		ug/L		123	78 - 123	5	20
cis-1,3-Dichloropropene	0.50	U	20.0	21.6		ug/L		108	75 - 124	6	20
Dibromochloromethane	0.50	U	20.0	21.6		ug/L		108	74 - 126	6	20
Dibromomethane	0.50	U	20.0	21.6		ug/L		108	79 - 123	7	20
Dichlorodifluoromethane	0.50	U	20.0	19.1		ug/L		95	32 - 152	2	20
Ethylbenzene	0.80	U	20.0	23.9		ug/L		120	79 - 121	6	20
Hexachlorobutadiene	4.0	U	20.0	23.9		ug/L		119	66 - 134	5	20
Isopropylbenzene	0.50	U	20.0	24.2		ug/L		121	72 - 131	5	20
m&p-Xylene	2.0	U	40.0	48.3		ug/L		121	80 - 121	5	20
Methyl tertiary butyl ether	0.50	U	20.0	20.2		ug/L		101	71 - 124	5	20
Methylene Chloride	0.50	U	20.0	23.6		ug/L		118	74 - 124	3	20
Naphthalene	2.0	U	20.0	21.8		ug/L		109	61 - 128	8	20
n-Butylbenzene	0.50	U	20.0	23.7		ug/L		119	75 - 128	4	20
N-Propylbenzene	0.50	U	20.0	25.1		ug/L		125	76 - 126	6	20
o-Xylene	0.80	U	20.0	23.6		ug/L		118	78 - 122	5	20
p-Isopropyltoluene	0.50	U	20.0	24.2		ug/L		121	77 - 127	5	20
sec-Butylbenzene	0.50	U	20.0	24.7		ug/L		123	77 - 126	5	20
Styrene	0.50	U	20.0	23.4		ug/L		117	78 - 123	5	20
tert-Butylbenzene	1.0	U	20.0	23.0		ug/L		115	78 - 124	6	20
Tetrachloroethene	0.50	U	20.0	25.1		ug/L		126	74 - 129	5	20
Toluene	1.3	J1	20.0	25.7	J1	ug/L		122	80 - 121	6	20
trans-1,2-Dichloroethene	0.50	U	20.0	24.8		ug/L		124	75 - 124	4	20
trans-1,3-Dichloropropene	0.50	U	20.0	20.7		ug/L		103	73 - 127	7	20
Trichloroethene	0.50	U	20.0	23.9		ug/L		120	79 - 123	5	20
Trichlorofluoromethane	0.50	U	20.0	22.8		ug/L		114	65 - 141	5	20
Vinyl chloride	0.50	U	20.0	21.0		ug/L		105	58 - 137	3	20
Xylenes, Total	2.0	U	60.0	71.9		ug/L		120	79 - 121	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	94		80 - 119
Toluene-d8 (Surr)	99		89 - 112

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16365-7 MSD

Matrix: Water

Analysis Batch: 53171

Client Sample ID: GW038-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	2.0	U	100	104		ug/L		104	54 - 146	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	98		81 - 118								
4-Bromofluorobenzene (Surr)	94		85 - 114								
Dibromofluoromethane (Surr)	94		80 - 119								
Toluene-d8 (Surr)	99		89 - 112								

Lab Sample ID: MB 410-55770/12

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 15:52	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 15:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 15:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 15:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 15:52	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 15:52	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 15:52	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 15:52	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 15:52	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 15:52	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 15:52	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 15:52	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-55770/12

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 15:52	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/19/20 15:52	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 15:52	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 15:52	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 15:52	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 15:52	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 15:52	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 15:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		81 - 118		10/19/20 15:52	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/19/20 15:52	1
Dibromofluoromethane (Surr)	102	M	80 - 119		10/19/20 15:52	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 15:52	1

Lab Sample ID: LCS 410-55770/6

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		104	78 - 124
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	74 - 131

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55770/6

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	20.0	20.9		ug/L		104	71 - 121
1,1,2-Trichloroethane	20.0	21.8		ug/L		109	80 - 119
1,1-Dichloroethane	20.0	21.4		ug/L		107	77 - 125
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131
1,1-Dichloropropene	20.0	21.4		ug/L		107	79 - 125
1,2,3-Trichlorobenzene	20.0	18.9		ug/L		95	69 - 129
1,2,3-Trichloropropane	20.0	20.8		ug/L		104	73 - 122
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		95	69 - 130
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		106	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.4		ug/L		102	62 - 128
1,2-Dibromoethane	20.0	20.2		ug/L		101	77 - 121
1,2-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	23.3		ug/L		116	73 - 128
1,2-Dichloropropane	20.0	21.6		ug/L		108	78 - 122
1,3,5-Trimethylbenzene	20.0	21.6		ug/L		108	75 - 124
1,3-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 119
1,3-Dichloropropane	20.0	20.9		ug/L		105	80 - 119
1,4-Dichlorobenzene	20.0	21.4		ug/L		107	79 - 118
2,2-Dichloropropane	20.0	21.6		ug/L		108	60 - 139
2-Butanone	150	151		ug/L		101	56 - 143
2-Chlorotoluene	20.0	20.6		ug/L		103	79 - 122
2-Hexanone	100	102		ug/L		102	57 - 139
4-Chlorotoluene	20.0	20.6		ug/L		103	78 - 122
4-Methyl-2-pentanone	100	101		ug/L		101	67 - 130
Acetone	150	158		ug/L		105	39 - 160
Acrolein	150	150		ug/L		100	39 - 155
Acrylonitrile	100	98.0		ug/L		98	63 - 135
Benzene	20.0	20.9		ug/L		105	42 - 138
Bromobenzene	20.0	21.0		ug/L		105	80 - 120
Bromochloromethane	20.0	19.8		ug/L		99	78 - 123
Bromodichloromethane	20.0	21.6		ug/L		108	79 - 125
Bromoform	20.0	17.5		ug/L		88	66 - 130
Bromomethane	20.0	16.7		ug/L		83	53 - 141
Carbon disulfide	20.0	20.4		ug/L		102	64 - 133
Carbon tetrachloride	20.0	20.8		ug/L		104	72 - 136
Chlorobenzene	20.0	21.2		ug/L		106	82 - 118
Chloroethane	20.0	14.1		ug/L		70	60 - 138
Chloroform	20.0	21.9		ug/L		110	79 - 124
Chloromethane	20.0	13.4	M	ug/L		67	50 - 139
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	78 - 123
cis-1,3-Dichloropropene	20.0	21.2		ug/L		106	75 - 124
Dibromochloromethane	20.0	20.8		ug/L		104	74 - 126
Dibromomethane	20.0	21.3		ug/L		107	79 - 123
Dichlorodifluoromethane	20.0	12.3		ug/L		61	32 - 152
Ethylbenzene	20.0	21.6		ug/L		108	79 - 121
Hexachlorobutadiene	20.0	16.7		ug/L		84	66 - 134
Isopropylbenzene	20.0	21.5		ug/L		108	72 - 131
m&p-Xylene	40.0	43.4		ug/L		109	80 - 121
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55770/6

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	20.0	21.1		ug/L		105	74 - 124
Naphthalene	20.0	20.1		ug/L		101	61 - 128
n-Butylbenzene	20.0	21.4		ug/L		107	75 - 128
N-Propylbenzene	20.0	21.9		ug/L		110	76 - 126
o-Xylene	20.0	21.3		ug/L		107	78 - 122
p-Isopropyltoluene	20.0	21.4		ug/L		107	77 - 127
sec-Butylbenzene	20.0	21.3		ug/L		107	77 - 126
Styrene	20.0	21.6		ug/L		108	78 - 123
tert-Butylbenzene	20.0	20.3		ug/L		102	78 - 124
Tetrachloroethene	20.0	21.0		ug/L		105	74 - 129
Toluene	20.0	21.4		ug/L		107	80 - 121
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	75 - 124
trans-1,3-Dichloropropene	20.0	21.4		ug/L		107	73 - 127
Trichloroethene	20.0	21.0		ug/L		105	79 - 123
Trichlorofluoromethane	20.0	17.2	M	ug/L		86	65 - 141
Vinyl chloride	20.0	14.6		ug/L		73	58 - 137
Xylenes, Total	60.0	64.7		ug/L		108	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCS 410-55770/9

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	100		ug/L		100	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCSD 410-55770/10

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	99.7	M	ug/L		100	54 - 146	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-55770/10

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCSD 410-55770/8

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		104	78 - 124	0	20
1,1,1-Trichloroethane	20.0	22.0		ug/L		110	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/L		106	71 - 121	2	20
1,1,2-Trichloroethane	20.0	22.1		ug/L		110	80 - 119	1	20
1,1-Dichloroethane	20.0	22.3		ug/L		111	77 - 125	4	20
1,1-Dichloroethene	20.0	20.9		ug/L		104	71 - 131	2	20
1,1-Dichloropropene	20.0	22.1		ug/L		110	79 - 125	3	20
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	69 - 129	5	20
1,2,3-Trichloropropane	20.0	21.4		ug/L		107	73 - 122	3	20
1,2,4-Trichlorobenzene	20.0	19.3		ug/L		97	69 - 130	2	20
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	76 - 124	4	20
1,2-Dibromo-3-Chloropropane	20.0	21.2		ug/L		106	62 - 128	4	20
1,2-Dibromoethane	20.0	20.5		ug/L		102	77 - 121	1	20
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 119	2	20
1,2-Dichloroethane	20.0	23.4		ug/L		117	73 - 128	0	20
1,2-Dichloropropane	20.0	21.9		ug/L		110	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	22.5		ug/L		113	75 - 124	4	20
1,3-Dichlorobenzene	20.0	21.9		ug/L		110	80 - 119	3	20
1,3-Dichloropropane	20.0	21.4		ug/L		107	80 - 119	2	20
1,4-Dichlorobenzene	20.0	21.8		ug/L		109	79 - 118	2	20
2,2-Dichloropropane	20.0	22.5		ug/L		112	60 - 139	4	20
2-Butanone	150	153		ug/L		102	56 - 143	1	20
2-Chlorotoluene	20.0	21.3		ug/L		107	79 - 122	3	20
2-Hexanone	100	103		ug/L		103	57 - 139	1	20
4-Chlorotoluene	20.0	21.6		ug/L		108	78 - 122	5	20
4-Methyl-2-pentanone	100	102		ug/L		102	67 - 130	2	20
Acetone	150	163		ug/L		109	39 - 160	3	20
Acrolein	150	150		ug/L		100	39 - 155	0	20
Acrylonitrile	100	99.2		ug/L		99	63 - 135	1	20
Benzene	20.0	21.5		ug/L		107	42 - 138	3	20
Bromobenzene	20.0	21.4		ug/L		107	80 - 120	2	20
Bromochloromethane	20.0	19.9		ug/L		100	78 - 123	1	20
Bromodichloromethane	20.0	22.0		ug/L		110	79 - 125	2	20
Bromoform	20.0	17.6		ug/L		88	66 - 130	1	20
Bromomethane	20.0	17.0		ug/L		85	53 - 141	2	20
Carbon disulfide	20.0	20.8		ug/L		104	64 - 133	2	20
Carbon tetrachloride	20.0	21.2		ug/L		106	72 - 136	2	20
Chlorobenzene	20.0	21.5		ug/L		108	82 - 118	2	20
Chloroethane	20.0	14.7		ug/L		74	60 - 138	4	20
Chloroform	20.0	22.4		ug/L		112	79 - 124	2	20
Chloromethane	20.0	13.5		ug/L		68	50 - 139	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-55770/8

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.0	21.9		ug/L		110	78 - 123	2	20
cis-1,3-Dichloropropene	20.0	21.5		ug/L		107	75 - 124	1	20
Dibromochloromethane	20.0	21.2		ug/L		106	74 - 126	2	20
Dibromomethane	20.0	21.6		ug/L		108	79 - 123	1	20
Dichlorodifluoromethane	20.0	14.0		ug/L		70	32 - 152	13	20
Ethylbenzene	20.0	22.1		ug/L		110	79 - 121	2	20
Hexachlorobutadiene	20.0	17.6		ug/L		88	66 - 134	5	20
Isopropylbenzene	20.0	22.1		ug/L		110	72 - 131	2	20
m&p-Xylene	40.0	44.5		ug/L		111	80 - 121	2	20
Methyl tertiary butyl ether	20.0	20.4		ug/L		102	71 - 124	1	20
Methylene Chloride	20.0	21.7		ug/L		109	74 - 124	3	20
Naphthalene	20.0	20.9		ug/L		104	61 - 128	4	20
n-Butylbenzene	20.0	22.4		ug/L		112	75 - 128	4	20
N-Propylbenzene	20.0	22.8		ug/L		114	76 - 126	4	20
o-Xylene	20.0	21.7		ug/L		108	78 - 122	2	20
p-Isopropyltoluene	20.0	22.3		ug/L		112	77 - 127	4	20
sec-Butylbenzene	20.0	22.3		ug/L		111	77 - 126	4	20
Styrene	20.0	21.9		ug/L		110	78 - 123	2	20
tert-Butylbenzene	20.0	21.3		ug/L		106	78 - 124	5	20
Tetrachloroethene	20.0	21.6		ug/L		108	74 - 129	3	20
Toluene	20.0	21.9		ug/L		109	80 - 121	2	20
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	75 - 124	3	20
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	73 - 127	2	20
Trichloroethene	20.0	21.5		ug/L		107	79 - 123	2	20
Trichlorofluoromethane	20.0	17.8	M	ug/L		89	65 - 141	3	20
Vinyl chloride	20.0	15.3		ug/L		77	58 - 137	5	20
Xylenes, Total	60.0	66.2		ug/L		110	79 - 121	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	104		89 - 112

Lab Sample ID: 410-16365-5 MS

Matrix: Water

Analysis Batch: 55770

Client Sample ID: GW207-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.50	U	20.0	22.2		ug/L		111	78 - 124
1,1,1-Trichloroethane	0.50	U	20.0	24.5		ug/L		123	74 - 131
1,1,2,2-Tetrachloroethane	0.50	U	20.0	21.3		ug/L		107	71 - 121
1,1,2-Trichloroethane	0.50	U	20.0	22.7		ug/L		114	80 - 119
1,1-Dichloroethane	0.50	U	20.0	23.6		ug/L		118	77 - 125
1,1-Dichloroethene	0.50	U	20.0	23.6		ug/L		118	71 - 131
1,1-Dichloropropene	0.50	U	20.0	24.2		ug/L		121	79 - 125
1,2,3-Trichlorobenzene	1.0	U	20.0	19.8		ug/L		99	69 - 129
1,2,3-Trichloropropane	0.50	U	20.0	21.9		ug/L		110	73 - 122

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16365-5 MS

Matrix: Water

Analysis Batch: 55770

Client Sample ID: GW207-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	1.0	U	20.0	19.4		ug/L		97	69 - 130
1,2,4-Trimethylbenzene	2.0	U	20.0	22.9		ug/L		114	76 - 124
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	20.6		ug/L		103	62 - 128
1,2-Dibromoethane	0.50	U	20.0	20.9		ug/L		105	77 - 121
1,2-Dichlorobenzene	0.50	U	20.0	22.5		ug/L		113	80 - 119
1,2-Dichloroethane	0.50	U	20.0	24.6		ug/L		123	73 - 128
1,2-Dichloropropane	0.50	U	20.0	23.1		ug/L		116	78 - 122
1,3,5-Trimethylbenzene	1.0	U	20.0	23.4		ug/L		117	75 - 124
1,3-Dichlorobenzene	0.50	U	20.0	22.8		ug/L		114	80 - 119
1,3-Dichloropropane	0.50	U	20.0	22.1		ug/L		111	80 - 119
1,4-Dichlorobenzene	0.50	U	20.0	22.5		ug/L		113	79 - 118
2,2-Dichloropropane	0.50	U	20.0	24.2		ug/L		121	60 - 139
2-Butanone	1.0	U	150	159		ug/L		106	56 - 143
2-Chlorotoluene	0.50	U	20.0	22.3		ug/L		112	79 - 122
2-Hexanone	1.0	U	100	105		ug/L		105	57 - 139
4-Chlorotoluene	0.50	U	20.0	21.8		ug/L		109	78 - 122
4-Methyl-2-pentanone	1.0	U	100	104		ug/L		104	67 - 130
Acetone	2.0	U	150	167		ug/L		111	39 - 160
Acrolein	5.0	U	150	141		ug/L		94	39 - 155
Acrylonitrile	1.0	U	100	102		ug/L		102	63 - 135
Benzene	0.50	U	20.0	23.0		ug/L		115	42 - 138
Bromobenzene	0.50	U	20.0	22.3		ug/L		111	80 - 120
Bromochloromethane	0.50	U	20.0	20.5		ug/L		103	78 - 123
Bromodichloromethane	0.50	U	20.0	23.1		ug/L		116	79 - 125
Bromoform	2.0	U	20.0	16.7		ug/L		83	66 - 130
Bromomethane	0.50	U	20.0	19.3		ug/L		97	53 - 141
Carbon disulfide	0.50	U	20.0	22.8		ug/L		114	64 - 133
Carbon tetrachloride	0.50	U	20.0	24.1		ug/L		121	72 - 136
Chlorobenzene	0.50	U	20.0	22.8		ug/L		114	82 - 118
Chloroethane	0.50	U Q	20.0	16.5		ug/L		83	60 - 138
Chloroform	0.50	U	20.0	23.8		ug/L		119	79 - 124
Chloromethane	0.50	U Q J1	20.0	7.89	J1	ug/L		39	50 - 139
cis-1,2-Dichloroethene	0.50	U	20.0	23.4		ug/L		117	78 - 123
cis-1,3-Dichloropropene	0.50	U	20.0	21.3		ug/L		106	75 - 124
Dibromochloromethane	0.50	U	20.0	21.0		ug/L		105	74 - 126
Dibromomethane	0.50	U	20.0	22.2		ug/L		111	79 - 123
Dichlorodifluoromethane	0.50	U	20.0	17.4		ug/L		87	32 - 152
Ethylbenzene	0.80	U	20.0	23.5		ug/L		118	79 - 121
Hexachlorobutadiene	4.0	U Q	20.0	18.8		ug/L		94	66 - 134
Isopropylbenzene	0.50	U	20.0	23.5		ug/L		117	72 - 131
m&p-Xylene	2.0	U	40.0	47.2		ug/L		118	80 - 121
Methyl tertiary butyl ether	0.50	U	20.0	20.6		ug/L		103	71 - 124
Methylene Chloride	0.50	U	20.0	22.7		ug/L		114	74 - 124
Naphthalene	2.0	U	20.0	20.6		ug/L		103	61 - 128
n-Butylbenzene	0.50	U	20.0	23.5		ug/L		117	75 - 128
N-Propylbenzene	0.50	U	20.0	24.1		ug/L		120	76 - 126
o-Xylene	0.80	U	20.0	22.8		ug/L		114	78 - 122
p-Isopropyltoluene	0.50	U	20.0	23.4		ug/L		117	77 - 127
sec-Butylbenzene	0.50	U	20.0	23.8		ug/L		119	77 - 126

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16365-5 MS

Matrix: Water

Analysis Batch: 55770

Client Sample ID: GW207-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	0.50	U	20.0	23.1		ug/L		116	78 - 123
tert-Butylbenzene	1.0	U	20.0	22.9		ug/L		115	78 - 124
Tetrachloroethene	0.50	U	20.0	22.8		ug/L		114	74 - 129
Toluene	0.50	U	20.0	23.1		ug/L		115	80 - 121
trans-1,2-Dichloroethene	0.50	U	20.0	23.1		ug/L		116	75 - 124
trans-1,3-Dichloropropene	0.50	U	20.0	21.6		ug/L		108	73 - 127
Trichloroethene	0.50	U	20.0	23.5		ug/L		118	79 - 123
Trichlorofluoromethane	0.50	U	20.0	21.9		ug/L		110	65 - 141
Vinyl chloride	0.50	U Q	20.0	17.5		ug/L		87	58 - 137
Xylenes, Total	2.0	U	60.0	70.0		ug/L		117	79 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	117		81 - 118
4-Bromofluorobenzene (Surr)	101		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16365-5 MS

Matrix: Water

Analysis Batch: 55770

Client Sample ID: GW207-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	2.0	U	100	107		ug/L		107	54 - 146

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16365-5 MSD

Matrix: Water

Analysis Batch: 55770

Client Sample ID: GW207-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.50	U	20.0	21.2		ug/L		106	78 - 124	5	20
1,1,1-Trichloroethane	0.50	U	20.0	23.8		ug/L		119	74 - 131	3	20
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.7		ug/L		103	71 - 121	3	20
1,1,2-Trichloroethane	0.50	U	20.0	22.1		ug/L		110	80 - 119	3	20
1,1-Dichloroethane	0.50	U	20.0	23.2		ug/L		116	77 - 125	2	20
1,1-Dichloroethene	0.50	U	20.0	23.1		ug/L		116	71 - 131	2	20
1,1-Dichloropropene	0.50	U	20.0	24.0		ug/L		120	79 - 125	1	20
1,2,3-Trichlorobenzene	1.0	U	20.0	19.4		ug/L		97	69 - 129	2	20
1,2,3-Trichloropropane	0.50	U	20.0	21.1		ug/L		105	73 - 122	4	20
1,2,4-Trichlorobenzene	1.0	U	20.0	18.9		ug/L		95	69 - 130	2	20
1,2,4-Trimethylbenzene	2.0	U	20.0	22.0		ug/L		110	76 - 124	4	20
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	20.4		ug/L		102	62 - 128	1	20
1,2-Dibromoethane	0.50	U	20.0	20.5		ug/L		103	77 - 121	2	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16365-5 MSD

Matrix: Water

Analysis Batch: 55770

Client Sample ID: GW207-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	0.50	U	20.0	21.4		ug/L		107	80 - 119	5	20
1,2-Dichloroethane	0.50	U	20.0	23.7		ug/L		118	73 - 128	4	20
1,2-Dichloropropane	0.50	U	20.0	22.6		ug/L		113	78 - 122	2	20
1,3,5-Trimethylbenzene	1.0	U	20.0	22.8		ug/L		114	75 - 124	3	20
1,3-Dichlorobenzene	0.50	U	20.0	21.9		ug/L		109	80 - 119	4	20
1,3-Dichloropropane	0.50	U	20.0	21.3		ug/L		107	80 - 119	4	20
1,4-Dichlorobenzene	0.50	U	20.0	21.6		ug/L		108	79 - 118	4	20
2,2-Dichloropropane	0.50	U	20.0	24.0		ug/L		120	60 - 139	1	20
2-Butanone	1.0	U	150	157		ug/L		104	56 - 143	1	20
2-Chlorotoluene	0.50	U	20.0	21.6		ug/L		108	79 - 122	4	20
2-Hexanone	1.0	U	100	103		ug/L		103	57 - 139	2	20
4-Chlorotoluene	0.50	U	20.0	21.6		ug/L		108	78 - 122	1	20
4-Methyl-2-pentanone	1.0	U	100	103		ug/L		103	67 - 130	2	20
Acetone	2.0	U	150	141		ug/L		94	39 - 160	17	20
Acrolein	5.0	U	150	139		ug/L		93	39 - 155	1	20
Acrylonitrile	1.0	U	100	98.7		ug/L		99	63 - 135	3	20
Benzene	0.50	U	20.0	22.3		ug/L		111	42 - 138	3	20
Bromobenzene	0.50	U	20.0	21.5		ug/L		107	80 - 120	4	20
Bromochloromethane	0.50	U	20.0	20.0		ug/L		100	78 - 123	3	20
Bromodichloromethane	0.50	U	20.0	22.0		ug/L		110	79 - 125	5	20
Bromoform	2.0	U	20.0	16.1		ug/L		80	66 - 130	4	20
Bromomethane	0.50	U	20.0	19.3		ug/L		97	53 - 141	0	20
Carbon disulfide	0.50	U	20.0	22.3		ug/L		111	64 - 133	2	20
Carbon tetrachloride	0.50	U	20.0	23.3		ug/L		117	72 - 136	3	20
Chlorobenzene	0.50	U	20.0	22.1		ug/L		110	82 - 118	3	20
Chloroethane	0.50	U Q	20.0	16.7		ug/L		83	60 - 138	1	20
Chloroform	0.50	U	20.0	23.3		ug/L		116	79 - 124	2	20
Chloromethane	0.50	U Q J1	20.0	15.2	J1	ug/L		76	50 - 139	63	20
cis-1,2-Dichloroethene	0.50	U	20.0	22.7		ug/L		114	78 - 123	3	20
cis-1,3-Dichloropropene	0.50	U	20.0	20.8		ug/L		104	75 - 124	2	20
Dibromochloromethane	0.50	U	20.0	20.3		ug/L		102	74 - 126	3	20
Dibromomethane	0.50	U	20.0	21.4		ug/L		107	79 - 123	4	20
Dichlorodifluoromethane	0.50	U	20.0	17.2		ug/L		86	32 - 152	1	20
Ethylbenzene	0.80	U	20.0	22.8		ug/L		114	79 - 121	3	20
Hexachlorobutadiene	4.0	U Q	20.0	18.4		ug/L		92	66 - 134	2	20
Isopropylbenzene	0.50	U	20.0	23.0		ug/L		115	72 - 131	2	20
m&p-Xylene	2.0	U	40.0	46.2		ug/L		115	80 - 121	2	20
Methyl tertiary butyl ether	0.50	U	20.0	20.3		ug/L		101	71 - 124	2	20
Methylene Chloride	0.50	U	20.0	21.9		ug/L		110	74 - 124	4	20
Naphthalene	2.0	U	20.0	20.2		ug/L		101	61 - 128	2	20
n-Butylbenzene	0.50	U	20.0	22.9		ug/L		115	75 - 128	2	20
N-Propylbenzene	0.50	U	20.0	23.4		ug/L		117	76 - 126	3	20
o-Xylene	0.80	U	20.0	22.3		ug/L		112	78 - 122	2	20
p-Isopropyltoluene	0.50	U	20.0	22.7		ug/L		114	77 - 127	3	20
sec-Butylbenzene	0.50	U	20.0	23.2		ug/L		116	77 - 126	3	20
Styrene	0.50	U	20.0	22.4		ug/L		112	78 - 123	3	20
tert-Butylbenzene	1.0	U	20.0	21.8		ug/L		109	78 - 124	5	20
Tetrachloroethene	0.50	U	20.0	22.0		ug/L		110	74 - 129	4	20
Toluene	0.50	U	20.0	22.4		ug/L		112	80 - 121	3	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16365-5 MSD

Matrix: Water

Analysis Batch: 55770

Client Sample ID: GW207-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	0.50	U	20.0	22.1		ug/L		111	75 - 124	5	20
trans-1,3-Dichloropropene	0.50	U	20.0	21.0		ug/L		105	73 - 127	3	20
Trichloroethene	0.50	U	20.0	22.9		ug/L		114	79 - 123	3	20
Trichlorofluoromethane	0.50	U	20.0	21.4		ug/L		107	65 - 141	2	20
Vinyl chloride	0.50	U Q	20.0	17.8		ug/L		89	58 - 137	2	20
Xylenes, Total	2.0	U	60.0	68.5		ug/L		114	79 - 121	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	117		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	104		89 - 112

Lab Sample ID: 410-16365-5 MSD

Matrix: Water

Analysis Batch: 55770

Client Sample ID: GW207-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	2.0	U	100	108		ug/L		108	54 - 146	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-52948/1-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52948

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/12/20 19:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	109		46 - 136	10/10/20 00:26	10/12/20 19:27	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/10/20 00:26	10/12/20 19:27	1

Lab Sample ID: LCS 410-52948/2-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.117		ug/L		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 410-52948/2-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52948

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136

Lab Sample ID: LCSD 410-52948/3-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.128		ug/L		100	60 - 140	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	112		46 - 136
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136

Lab Sample ID: MB 410-52949/1-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52949

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/13/20 23:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136	10/10/20 00:55	10/13/20 23:09	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/10/20 00:55	10/13/20 23:09	1

Lab Sample ID: LCS 410-52949/2-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.111		ug/L		87	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136

Lab Sample ID: LCSD 410-52949/3-A

Matrix: Water

Analysis Batch: 53963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52949

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.111		ug/L		87	60 - 140	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	109		46 - 136
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 410-16365-5 MS

Matrix: Water

Analysis Batch: 54485

Client Sample ID: GW207-204

Prep Type: Total/NA

Prep Batch: 52949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.019	U	0.122	0.102		ug/L		83	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	85		46 - 136						

Lab Sample ID: 410-16365-5 MSD

Matrix: Water

Analysis Batch: 54485

Client Sample ID: GW207-204

Prep Type: Total/NA

Prep Batch: 52949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.019	U	0.123	0.101	M	ug/L		82	60 - 140	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136								

Lab Sample ID: MB 410-53994/1-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53994

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/15/20 18:56	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,1,2,2-Tetrachloroethane (1C)	114		46 - 136	10/13/20 20:59	10/15/20 18:56	1
1,1,2,2-Tetrachloroethane (2C)	107		46 - 136	10/13/20 20:59	10/15/20 18:56	1

Lab Sample ID: LCS 410-53994/2-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.144	M	ug/L		113	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136				

Lab Sample ID: LCSD 410-53994/3-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.128	0.145	M	ug/L		113	60 - 140	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-53994/3-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53994

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136

Lab Sample ID: MB 410-53995/1-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53995

Analyte	MB	MB	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)			0.020	U	0.030	0.020	0.010	ug/L		10/14/20 21:33	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,1,2,2-Tetrachloroethane (1C)			98	M	46 - 136	10/13/20 21:04	10/14/20 21:33	1			
1,1,2,2-Tetrachloroethane (2C)			98		46 - 136	10/13/20 21:04	10/14/20 21:33	1			

Lab Sample ID: LCS 410-53995/2-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53995

			Spike	LCS	LCS					%Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylene Dibromide (1C)			0.128	0.150		ug/L		118	60 - 140	
Surrogate	LCS	LCS								
	%Recovery	Qualifier	Limits							
1,1,2,2-Tetrachloroethane (1C)	106		46 - 136							
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136							

Lab Sample ID: LCSD 410-53995/3-A

Matrix: Water

Analysis Batch: 54485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.146		ug/L		114	60 - 140	3	20
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)			104		46 - 136				
1,1,2,2-Tetrachloroethane (2C)			99		46 - 136				

Lab Sample ID: 410-16365-7 MS

Matrix: Water

Analysis Batch: 54485

Client Sample ID: GW038-204

Prep Type: Total/NA

Prep Batch: 53995

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.019	U	0.123	0.138	M	ug/L		112	60 - 140		
Surrogate	MS	MS	%Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)			101	M	46 - 136						
1,1,2,2-Tetrachloroethane (2C)			100		46 - 136						

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 410-16365-7 MSD

Matrix: Water

Analysis Batch: 54485

Client Sample ID: GW038-204

Prep Type: Total/NA

Prep Batch: 53995

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.019	U	0.123	0.137		ug/L		111	60 - 140	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136								

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-53707/4

Matrix: Water

Analysis Batch: 53707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/13/20 05:18	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/13/20 05:18	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/13/20 05:18	1

Lab Sample ID: LCS 410-53707/3

Matrix: Water

Analysis Batch: 53707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.47		mg/L		100	90 - 110
Chloride	3.00	3.02		mg/L		101	90 - 110
Sulfate	7.50	7.71		mg/L		103	90 - 110

Lab Sample ID: MB 410-53729/4

Matrix: Water

Analysis Batch: 53729

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/13/20 07:07	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/13/20 07:07	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/13/20 07:07	1

Lab Sample ID: LCS 410-53729/3

Matrix: Water

Analysis Batch: 53729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.26		mg/L		97	90 - 110
Chloride	3.00	2.93		mg/L		98	90 - 110
Sulfate	7.50	7.43		mg/L		99	90 - 110

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-54243/1-A

Matrix: Water

Analysis Batch: 54878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54243

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:02	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 14:02	1

Lab Sample ID: LCS 410-54243/2-A

Matrix: Water

Analysis Batch: 54878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.407		mg/L		101	87 - 115
Manganese	0.0200	0.0205		mg/L		103	90 - 114

Lab Sample ID: MB 410-54248/1-A

Matrix: Water

Analysis Batch: 54943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54248

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 16:27	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 16:27	1

Lab Sample ID: LCS 410-54248/2-A

Matrix: Water

Analysis Batch: 54943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.394		mg/L		98	87 - 115
Manganese	0.0200	0.0199		mg/L		100	90 - 114

Lab Sample ID: MB 410-55987/1-A

Matrix: Water

Analysis Batch: 56396

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55987

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 10:05	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 10:05	1

Lab Sample ID: LCS 410-55987/2-A

Matrix: Water

Analysis Batch: 56396

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.403		mg/L		100	87 - 115
Manganese	0.0200	0.0241	Q	mg/L		121	90 - 114

Lab Sample ID: MB 410-53759/1-A

Matrix: Water

Analysis Batch: 55720

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53759

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/18/20 16:21	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/18/20 16:21	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-53759/1-A

Matrix: Water

Analysis Batch: 55720

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53759

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/18/20 16:21	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/18/20 16:21	1

Lab Sample ID: LCS 410-53759/2-A

Matrix: Water

Analysis Batch: 55720

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.383		mg/L		96	87 - 113
Magnesium	0.200	0.199		mg/L		100	85 - 113
Potassium	5.60	5.69		mg/L		102	86 - 114
Sodium	2.00	2.06		mg/L		103	87 - 115

Lab Sample ID: 410-16365-5 MS

Matrix: Water

Analysis Batch: 54943

Client Sample ID: GW207-204

Prep Type: Dissolved

Prep Batch: 54248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U	0.402	0.398		mg/L		99	87 - 115
Manganese	0.0052	U	0.0200	0.0194		mg/L		97	90 - 114

Lab Sample ID: 410-16365-5 MSD

Matrix: Water

Analysis Batch: 54943

Client Sample ID: GW207-204

Prep Type: Dissolved

Prep Batch: 54248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.10	U	0.402	0.406		mg/L		101	87 - 115	2	20
Manganese	0.0052	U	0.0200	0.0199		mg/L		100	90 - 114	3	20

Lab Sample ID: 410-16365-7 MS

Matrix: Water

Analysis Batch: 54943

Client Sample ID: GW038-204

Prep Type: Dissolved

Prep Batch: 54248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U	0.402	0.400		mg/L		99	87 - 115
Manganese	0.0052	U	0.0200	0.0198		mg/L		99	90 - 114

Lab Sample ID: 410-16365-7 MSD

Matrix: Water

Analysis Batch: 54943

Client Sample ID: GW038-204

Prep Type: Dissolved

Prep Batch: 54248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.10	U	0.402	0.408		mg/L		101	87 - 115	2	20
Manganese	0.0052	U	0.0200	0.0200		mg/L		100	90 - 114	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-16365-5 DU

Matrix: Water

Analysis Batch: 54943

Client Sample ID: GW207-204

Prep Type: Dissolved

Prep Batch: 54248

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Iron	0.10	U	0.10	U	mg/L		NC	20
Manganese	0.0052	U	0.0052	U	mg/L		NC	20

Lab Sample ID: 410-16365-7 DU

Matrix: Water

Analysis Batch: 54943

Client Sample ID: GW038-204

Prep Type: Dissolved

Prep Batch: 54248

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Iron	0.10	U	0.10	U	mg/L		NC	20
Manganese	0.0052	U	0.0052	U	mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-53284/1-A

Matrix: Water

Analysis Batch: 54852

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53284

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/15/20 12:28	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 12:28	1

Lab Sample ID: LCS 410-53284/2-A

Matrix: Water

Analysis Batch: 54852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0605		mg/L		101	84 - 116
Lead	0.0300	0.0308		mg/L		103	88 - 115

Lab Sample ID: MB 410-53285/1-A

Matrix: Water

Analysis Batch: 54146

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53285

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 13:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 13:55	1

Lab Sample ID: LCS 410-53285/2-A

Matrix: Water

Analysis Batch: 54146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.120	0.110		mg/L		92	84 - 116
Lead	0.0599	0.0599		mg/L		100	88 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-16365-5 MS

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW207-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0016	U	0.0600	0.0585		mg/L		97	84 - 116
Lead	0.00025	U	0.0300	0.0296		mg/L		99	88 - 115

Lab Sample ID: 410-16365-5 MSD

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW207-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0016	U	0.0600	0.0584		mg/L		97	84 - 116	0	20
Lead	0.00025	U	0.0300	0.0296		mg/L		99	88 - 115	0	20

Lab Sample ID: 410-16365-7 MS

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW038-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0016	U	0.0600	0.0583		mg/L		97	84 - 116
Lead	0.000072	J	0.0300	0.0302		mg/L		101	88 - 115

Lab Sample ID: 410-16365-7 MSD

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW038-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0016	U	0.0600	0.0572		mg/L		95	84 - 116	2	20
Lead	0.000072	J	0.0300	0.0292		mg/L		97	88 - 115	3	20

Lab Sample ID: 410-16365-5 DU

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW207-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0016	U	0.0016	U	mg/L		NC	20
Lead	0.00025	U	0.00025	U	mg/L		NC	20

Lab Sample ID: 410-16365-7 DU

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW038-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0016	U	0.0016	U	mg/L		NC	20
Lead	0.000072	J	0.00025	U	mg/L		NC	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-52867/53

Matrix: Water

Analysis Batch: 52867

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 00:26	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 00:26	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 00:26	1

Lab Sample ID: MB 410-52867/72

Matrix: Water

Analysis Batch: 52867

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 02:36	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 02:36	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 02:36	1

Lab Sample ID: LCS 410-52867/55

Matrix: Water

Analysis Batch: 52867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	170		mg/L		90	82 - 106

Lab Sample ID: LCS 410-52867/73

Matrix: Water

Analysis Batch: 52867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	171		mg/L		91	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-57542/92

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 12:31	1

Lab Sample ID: LCS 410-57542/93

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.46		mg/L		98	90 - 110

Lab Sample ID: 410-16365-2 MS

Matrix: Water

Analysis Batch: 57542

Client Sample ID: GW236-470-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.81		1.00	1.73		mg/L		92	90 - 110

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: 410-16365-2 DU

Matrix: Water

Analysis Batch: 57542

Client Sample ID: GW236-470-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.81		0.790		mg/L	-	2	10

1

2

3

4

5

6

7

8

9

10

11

12

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14

15

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

GC/MS VOA

Analysis Batch: 53171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total/NA	Water	8260C DOD	
410-16365-2	GW236-470-204	Total/NA	Water	8260C DOD	
410-16365-3	GW236-499-204	Total/NA	Water	8260C DOD	
410-16365-4	TB204-09	Total/NA	Water	8260C DOD	
410-16365-6	TB204-10	Total/NA	Water	8260C DOD	
410-16365-7	GW038-204	Total/NA	Water	8260C DOD	
410-16365-8	TB204-08	Total/NA	Water	8260C DOD	
410-16365-9	GW007-204	Total/NA	Water	8260C DOD	
410-16365-10	GW235-438-204	Total/NA	Water	8260C DOD	
410-16365-11	GW235-501-204	Total/NA	Water	8260C DOD	
410-16365-12	TB204-06	Total/NA	Water	8260C DOD	
MB 410-53171/9	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-53171/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-53171/7	Lab Control Sample	Total/NA	Water	8260C DOD	
410-16365-7 MS	GW038-204	Total/NA	Water	8260C DOD	
410-16365-7 MS	GW038-204	Total/NA	Water	8260C DOD	
410-16365-7 MSD	GW038-204	Total/NA	Water	8260C DOD	
410-16365-7 MSD	GW038-204	Total/NA	Water	8260C DOD	

Analysis Batch: 55770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-5	GW207-204	Total/NA	Water	8260C DOD	
MB 410-55770/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-55770/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-55770/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-55770/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-55770/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
410-16365-5 MS	GW207-204	Total/NA	Water	8260C DOD	
410-16365-5 MS	GW207-204	Total/NA	Water	8260C DOD	
410-16365-5 MSD	GW207-204	Total/NA	Water	8260C DOD	
410-16365-5 MSD	GW207-204	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 52948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-3	GW236-499-204	Total/NA	Water	8011	
410-16365-4	TB204-09	Total/NA	Water	8011	
410-16365-9	GW007-204	Total/NA	Water	8011	
410-16365-10	GW235-438-204	Total/NA	Water	8011	
410-16365-11	GW235-501-204	Total/NA	Water	8011	
410-16365-12	TB204-06	Total/NA	Water	8011	
MB 410-52948/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-52948/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-52948/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 52949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-5	GW207-204	Total/NA	Water	8011	
MB 410-52949/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-52949/2-A	Lab Control Sample	Total/NA	Water	8011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

GC Semi VOA (Continued)

Prep Batch: 52949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 410-52949/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-16365-5 MS	GW207-204	Total/NA	Water	8011	
410-16365-5 MSD	GW207-204	Total/NA	Water	8011	

Analysis Batch: 53440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-52948/1-A	Method Blank	Total/NA	Water	8011	52948
LCS 410-52948/2-A	Lab Control Sample	Total/NA	Water	8011	52948
LCSD 410-52948/3-A	Lab Control Sample Dup	Total/NA	Water	8011	52948

Analysis Batch: 53963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-3	GW236-499-204	Total/NA	Water	8011	52948
410-16365-4	TB204-09	Total/NA	Water	8011	52948
410-16365-9	GW007-204	Total/NA	Water	8011	52948
410-16365-10	GW235-438-204	Total/NA	Water	8011	52948
410-16365-11	GW235-501-204	Total/NA	Water	8011	52948
410-16365-12	TB204-06	Total/NA	Water	8011	52948
MB 410-52949/1-A	Method Blank	Total/NA	Water	8011	52949
LCS 410-52949/2-A	Lab Control Sample	Total/NA	Water	8011	52949
LCSD 410-52949/3-A	Lab Control Sample Dup	Total/NA	Water	8011	52949

Prep Batch: 53994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total/NA	Water	8011	
410-16365-2	GW236-470-204	Total/NA	Water	8011	
410-16365-6	TB204-10	Total/NA	Water	8011	
MB 410-53994/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-53994/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-53994/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 53995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-7	GW038-204	Total/NA	Water	8011	
410-16365-8	TB204-08	Total/NA	Water	8011	
MB 410-53995/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-53995/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-53995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-16365-7 MS	GW038-204	Total/NA	Water	8011	
410-16365-7 MSD	GW038-204	Total/NA	Water	8011	

Analysis Batch: 54485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total/NA	Water	8011	53994
410-16365-2	GW236-470-204	Total/NA	Water	8011	53994
410-16365-5	GW207-204	Total/NA	Water	8011	52949
410-16365-6	TB204-10	Total/NA	Water	8011	53994
410-16365-7	GW038-204	Total/NA	Water	8011	53995
410-16365-8	TB204-08	Total/NA	Water	8011	53995
MB 410-53994/1-A	Method Blank	Total/NA	Water	8011	53994
MB 410-53995/1-A	Method Blank	Total/NA	Water	8011	53995

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

GC Semi VOA (Continued)

Analysis Batch: 54485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-53994/2-A	Lab Control Sample	Total/NA	Water	8011	53994
LCS 410-53995/2-A	Lab Control Sample	Total/NA	Water	8011	53995
LCSD 410-53994/3-A	Lab Control Sample Dup	Total/NA	Water	8011	53994
LCSD 410-53995/3-A	Lab Control Sample Dup	Total/NA	Water	8011	53995
410-16365-5 MS	GW207-204	Total/NA	Water	8011	52949
410-16365-5 MSD	GW207-204	Total/NA	Water	8011	52949
410-16365-7 MS	GW038-204	Total/NA	Water	8011	53995
410-16365-7 MSD	GW038-204	Total/NA	Water	8011	53995

HPLC/IC

Analysis Batch: 53707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-1	GW236-436-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-2	GW236-470-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-2	GW236-470-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-3	GW236-499-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-3	GW236-499-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-5	GW207-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-5	GW207-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-53707/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-53707/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 53729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-7	GW038-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-9	GW007-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-10	GW235-438-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-10	GW235-438-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-11	GW235-501-204	Total/NA	Water	EPA 300.0 R2.1	
410-16365-11	GW235-501-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-53729/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-53729/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 53284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-9	GW007-204	Total/NA	Water	3020A	
410-16365-11	GW235-501-204	Total/NA	Water	3020A	
MB 410-53284/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53284/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 53285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total/NA	Water	3020A	
410-16365-2	GW236-470-204	Total/NA	Water	3020A	
410-16365-3	GW236-499-204	Total/NA	Water	3020A	
410-16365-5	GW207-204	Total/NA	Water	3020A	
410-16365-7	GW038-204	Total/NA	Water	3020A	
410-16365-10	GW235-438-204	Total/NA	Water	3020A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Metals (Continued)

Prep Batch: 53285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-53285/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53285/2-A	Lab Control Sample	Total/NA	Water	3020A	
410-16365-5 MS	GW207-204	Total/NA	Water	3020A	
410-16365-5 MSD	GW207-204	Total/NA	Water	3020A	
410-16365-7 MS	GW038-204	Total/NA	Water	3020A	
410-16365-7 MSD	GW038-204	Total/NA	Water	3020A	
410-16365-5 DU	GW207-204	Total/NA	Water	3020A	
410-16365-7 DU	GW038-204	Total/NA	Water	3020A	

Prep Batch: 53759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total Recoverable	Water	3005A	
410-16365-2	GW236-470-204	Total Recoverable	Water	3005A	
410-16365-3	GW236-499-204	Total Recoverable	Water	3005A	
410-16365-5	GW207-204	Total Recoverable	Water	3005A	
410-16365-7	GW038-204	Total Recoverable	Water	3005A	
410-16365-9	GW007-204	Total Recoverable	Water	3005A	
410-16365-10	GW235-438-204	Total Recoverable	Water	3005A	
410-16365-11	GW235-501-204	Total Recoverable	Water	3005A	
MB 410-53759/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53759/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 54146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total/NA	Water	6020A	53285
410-16365-2	GW236-470-204	Total/NA	Water	6020A	53285
410-16365-3	GW236-499-204	Total/NA	Water	6020A	53285
410-16365-5	GW207-204	Total/NA	Water	6020A	53285
410-16365-7	GW038-204	Total/NA	Water	6020A	53285
410-16365-10	GW235-438-204	Total/NA	Water	6020A	53285
MB 410-53285/1-A	Method Blank	Total/NA	Water	6020A	53285
LCS 410-53285/2-A	Lab Control Sample	Total/NA	Water	6020A	53285
410-16365-5 MS	GW207-204	Total/NA	Water	6020A	53285
410-16365-5 MSD	GW207-204	Total/NA	Water	6020A	53285
410-16365-7 MS	GW038-204	Total/NA	Water	6020A	53285
410-16365-7 MSD	GW038-204	Total/NA	Water	6020A	53285
410-16365-5 DU	GW207-204	Total/NA	Water	6020A	53285
410-16365-7 DU	GW038-204	Total/NA	Water	6020A	53285

Prep Batch: 54243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-3	GW236-499-204	Dissolved	Water	Non-Digest Prep	
MB 410-54243/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54243/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 54248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-5	GW207-204	Dissolved	Water	Non-Digest Prep	
410-16365-7	GW038-204	Dissolved	Water	Non-Digest Prep	
410-16365-9	GW007-204	Dissolved	Water	Non-Digest Prep	
410-16365-10	GW235-438-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Metals (Continued)

Prep Batch: 54248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-11	GW235-501-204	Dissolved	Water	Non-Digest Prep	
MB 410-54248/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54248/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-16365-5 MS	GW207-204	Dissolved	Water	Non-Digest Prep	
410-16365-5 MSD	GW207-204	Dissolved	Water	Non-Digest Prep	
410-16365-7 MS	GW038-204	Dissolved	Water	Non-Digest Prep	
410-16365-7 MSD	GW038-204	Dissolved	Water	Non-Digest Prep	
410-16365-5 DU	GW207-204	Dissolved	Water	Non-Digest Prep	
410-16365-7 DU	GW038-204	Dissolved	Water	Non-Digest Prep	

Analysis Batch: 54852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-9	GW007-204	Total/NA	Water	6020A	53284
410-16365-11	GW235-501-204	Total/NA	Water	6020A	53284
MB 410-53284/1-A	Method Blank	Total/NA	Water	6020A	53284
LCS 410-53284/2-A	Lab Control Sample	Total/NA	Water	6020A	53284

Analysis Batch: 54878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-3	GW236-499-204	Dissolved	Water	6010C	54243
MB 410-54243/1-A	Method Blank	Total/NA	Water	6010C	54243
LCS 410-54243/2-A	Lab Control Sample	Total/NA	Water	6010C	54243

Analysis Batch: 54943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-5	GW207-204	Dissolved	Water	6010C	54248
410-16365-7	GW038-204	Dissolved	Water	6010C	54248
410-16365-9	GW007-204	Dissolved	Water	6010C	54248
410-16365-10	GW235-438-204	Dissolved	Water	6010C	54248
410-16365-11	GW235-501-204	Dissolved	Water	6010C	54248
MB 410-54248/1-A	Method Blank	Total/NA	Water	6010C	54248
LCS 410-54248/2-A	Lab Control Sample	Total/NA	Water	6010C	54248
410-16365-5 MS	GW207-204	Dissolved	Water	6010C	54248
410-16365-5 MSD	GW207-204	Dissolved	Water	6010C	54248
410-16365-7 MS	GW038-204	Dissolved	Water	6010C	54248
410-16365-7 MSD	GW038-204	Dissolved	Water	6010C	54248
410-16365-5 DU	GW207-204	Dissolved	Water	6010C	54248
410-16365-7 DU	GW038-204	Dissolved	Water	6010C	54248

Analysis Batch: 55720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total Recoverable	Water	6010C	53759
410-16365-2	GW236-470-204	Total Recoverable	Water	6010C	53759
410-16365-3	GW236-499-204	Total Recoverable	Water	6010C	53759
410-16365-5	GW207-204	Total Recoverable	Water	6010C	53759
410-16365-7	GW038-204	Total Recoverable	Water	6010C	53759
410-16365-9	GW007-204	Total Recoverable	Water	6010C	53759
410-16365-10	GW235-438-204	Total Recoverable	Water	6010C	53759
410-16365-11	GW235-501-204	Total Recoverable	Water	6010C	53759
MB 410-53759/1-A	Method Blank	Total Recoverable	Water	6010C	53759
LCS 410-53759/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53759

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Metals

Prep Batch: 55987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Dissolved	Water	Non-Digest Prep	
410-16365-2	GW236-470-204	Dissolved	Water	Non-Digest Prep	
MB 410-55987/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-55987/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 56396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Dissolved	Water	6010C	55987
410-16365-2	GW236-470-204	Dissolved	Water	6010C	55987
MB 410-55987/1-A	Method Blank	Total/NA	Water	6010C	55987
LCS 410-55987/2-A	Lab Control Sample	Total/NA	Water	6010C	55987

General Chemistry

Analysis Batch: 52867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total/NA	Water	2320B-2011	
410-16365-2	GW236-470-204	Total/NA	Water	2320B-2011	
410-16365-3	GW236-499-204	Total/NA	Water	2320B-2011	
410-16365-5	GW207-204	Total/NA	Water	2320B-2011	
410-16365-7	GW038-204	Total/NA	Water	2320B-2011	
410-16365-9	GW007-204	Total/NA	Water	2320B-2011	
410-16365-10	GW235-438-204	Total/NA	Water	2320B-2011	
410-16365-11	GW235-501-204	Total/NA	Water	2320B-2011	
MB 410-52867/53	Method Blank	Total/NA	Water	2320B-2011	
MB 410-52867/72	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-52867/55	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-52867/73	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 57542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16365-1	GW236-436-204	Total/NA	Water	353.2	
410-16365-2	GW236-470-204	Total/NA	Water	353.2	
410-16365-3	GW236-499-204	Total/NA	Water	353.2	
410-16365-5	GW207-204	Total/NA	Water	353.2	
410-16365-7	GW038-204	Total/NA	Water	353.2	
410-16365-9	GW007-204	Total/NA	Water	353.2	
410-16365-10	GW235-438-204	Total/NA	Water	353.2	
410-16365-11	GW235-501-204	Total/NA	Water	353.2	
MB 410-57542/92	Method Blank	Total/NA	Water	353.2	
LCS 410-57542/93	Lab Control Sample	Total/NA	Water	353.2	
410-16365-2 MS	GW236-470-204	Total/NA	Water	353.2	
410-16365-2 DU	GW236-470-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-436-204

Lab Sample ID: 410-16365-1

Date Collected: 10/05/20 11:30

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 17:49	NSK7	ELLE
Total/NA	Prep	8011			53994	10/13/20 20:59	K2IL	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 20:54	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53707	10/13/20 14:52	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53707	10/13/20 15:10	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55987	10/19/20 16:21	UJLA	ELLE
Dissolved	Analysis	6010C		1	56396	10/20/20 11:23	UPJE	ELLE
Total Recoverable	Prep	3005A			53759	10/13/20 10:15	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55720	10/18/20 17:47	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:24	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	52867	10/09/20 06:05	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:15	KGQ6	ELLE

Client Sample ID: GW236-470-204

Lab Sample ID: 410-16365-2

Date Collected: 10/05/20 12:00

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 18:10	NSK7	ELLE
Total/NA	Prep	8011			53994	10/13/20 20:59	K2IL	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 21:11	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53707	10/13/20 16:05	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53707	10/13/20 16:23	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55987	10/19/20 16:21	UJLA	ELLE
Dissolved	Analysis	6010C		1	56396	10/20/20 11:26	UPJE	ELLE
Total Recoverable	Prep	3005A			53759	10/13/20 10:15	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55720	10/18/20 17:50	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:15	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	52867	10/09/20 05:50	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:17	KGQ6	ELLE

Client Sample ID: GW236-499-204

Lab Sample ID: 410-16365-3

Date Collected: 10/05/20 12:25

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 18:30	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 08:04	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53707	10/13/20 16:41	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53707	10/13/20 16:59	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW236-499-204

Lab Sample ID: 410-16365-3

Date Collected: 10/05/20 12:25

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54243	10/14/20 10:28	UJL8	ELLE
Dissolved	Analysis	6010C		1	54878	10/15/20 15:03	UCIG	ELLE
Total Recoverable	Prep	3005A			53759	10/13/20 10:15	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55720	10/18/20 17:53	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:10	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	52867	10/09/20 05:58	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:21	KGQ6	ELLE

Client Sample ID: TB204-09

Lab Sample ID: 410-16365-4

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 14:28	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 08:21	AC3T	ELLE

Client Sample ID: GW207-204

Lab Sample ID: 410-16365-5

Date Collected: 10/05/20 13:20

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 17:42	TQ4J	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 00:03	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53707	10/13/20 17:17	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53707	10/13/20 17:35	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54248	10/14/20 10:34	UJL8	ELLE
Dissolved	Analysis	6010C		1	54943	10/15/20 17:38	UCIG	ELLE
Total Recoverable	Prep	3005A			53759	10/13/20 10:15	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55720	10/18/20 17:43	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:17	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	52867	10/09/20 02:06	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:22	KGQ6	ELLE

Client Sample ID: TB204-10

Lab Sample ID: 410-16365-6

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 13:48	NSK7	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-10

Lab Sample ID: 410-16365-6

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			53994	10/13/20 20:59	K2IL	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 21:27	AC3T	ELLE

Client Sample ID: GW038-204

Lab Sample ID: 410-16365-7

Date Collected: 10/05/20 12:21

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 15:08	NSK7	ELLE
Total/NA	Prep	8011			53995	10/13/20 21:04	K2IL	ELLE
Total/NA	Analysis	8011		1	54485	10/14/20 22:56	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 10:32	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54248	10/14/20 10:34	UJL8	ELLE
Dissolved	Analysis	6010C		1	54943	10/15/20 18:07	UCIG	ELLE
Total Recoverable	Prep	3005A			53759	10/13/20 10:15	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55720	10/18/20 17:40	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:39	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	52867	10/09/20 01:58	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:23	KGQ6	ELLE

Client Sample ID: TB204-08

Lab Sample ID: 410-16365-8

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 14:08	NSK7	ELLE
Total/NA	Prep	8011			53995	10/13/20 21:04	K2IL	ELLE
Total/NA	Analysis	8011		1	54485	10/14/20 23:13	AC3T	ELLE

Client Sample ID: GW007-204

Lab Sample ID: 410-16365-9

Date Collected: 10/05/20 09:45

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 16:48	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 08:38	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 08:15	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54248	10/14/20 10:34	UJL8	ELLE
Dissolved	Analysis	6010C		1	54943	10/15/20 16:58	UCIG	ELLE
Total Recoverable	Prep	3005A			53759	10/13/20 10:15	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55720	10/18/20 17:30	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 13:18	V5SW	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: GW007-204

Lab Sample ID: 410-16365-9

Date Collected: 10/05/20 09:45

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1	52867	10/09/20 01:25	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:24	KGQ6	ELLE

Client Sample ID: GW235-438-204

Lab Sample ID: 410-16365-10

Date Collected: 10/05/20 10:15

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 17:09	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 08:54	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 08:49	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 09:07	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54248	10/14/20 10:34	UJL8	ELLE
Dissolved	Analysis	6010C		1	54943	10/15/20 16:54	UCIG	ELLE
Total Recoverable	Prep	3005A			53759	10/13/20 10:15	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55720	10/18/20 17:37	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:08	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	52867	10/09/20 02:14	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:26	KGQ6	ELLE

Client Sample ID: GW235-501-204

Lab Sample ID: 410-16365-11

Date Collected: 10/05/20 10:45

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 17:29	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 09:11	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 09:24	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 10:15	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54248	10/14/20 10:34	UJL8	ELLE
Dissolved	Analysis	6010C		1	54943	10/15/20 17:08	UCIG	ELLE
Total Recoverable	Prep	3005A			53759	10/13/20 10:15	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55720	10/18/20 17:33	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 13:20	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	52867	10/09/20 01:51	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:29	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Client Sample ID: TB204-06

Lab Sample ID: 410-16365-12

Date Collected: 10/05/20 14:00

Matrix: Water

Date Received: 10/07/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	53171	10/12/20 13:27	NSK7	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 09:28	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC



Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16365-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-16365-1	GW236-436-204	Water	10/05/20 11:30	10/07/20 10:46	
410-16365-2	GW236-470-204	Water	10/05/20 12:00	10/07/20 10:46	
410-16365-3	GW236-499-204	Water	10/05/20 12:25	10/07/20 10:46	
410-16365-4	TB204-09	Water	10/05/20 14:00	10/07/20 10:46	
410-16365-5	GW207-204	Water	10/05/20 13:20	10/07/20 10:46	
410-16365-6	TB204-10	Water	10/05/20 14:00	10/07/20 10:46	
410-16365-7	GW038-204	Water	10/05/20 12:21	10/07/20 10:46	
410-16365-8	TB204-08	Water	10/05/20 14:00	10/07/20 10:46	
410-16365-9	GW007-204	Water	10/05/20 09:45	10/07/20 10:46	
410-16365-10	GW235-438-204	Water	10/05/20 10:15	10/07/20 10:46	
410-16365-11	GW235-501-204	Water	10/05/20 10:45	10/07/20 10:46	
410-16365-12	TB204-06	Water	10/05/20 14:00	10/07/20 10:46	

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Eurofins Lancaster Laboratories Env, LLC



410-16365 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-236-436-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	COMMENTS
1	GW236-436-204	10-05-2020	1130	10	3	-	-	2	1	1*	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begay</i> RELINQUISHED BY: <i>G. Begay</i> Printed Name and Signature: <i>G. Begay</i> Printed Name and Signature: <i>G. Begay</i> Printed Name and Signature: <i>G. Begay</i> COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5770 RECEIVED BY: <i>Nicole Reiff</i> Printed Name and Signature: <i>Nicole Reiff</i> Printed Name and Signature: <i>Nicole Reiff</i> Printed Name and Signature: <i>Nicole Reiff</i> DATE: 10-05-2020 TIME: 1800 DATE: 10/7/20 TIME: 1046															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-236-499-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (354.2/308)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW236-499-204	10-05-2020	1225	10	3	-	-	2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
G. Begay

RELINQUISHED BY:
G. Begay

DATE
10-05-2020

TIME
1800

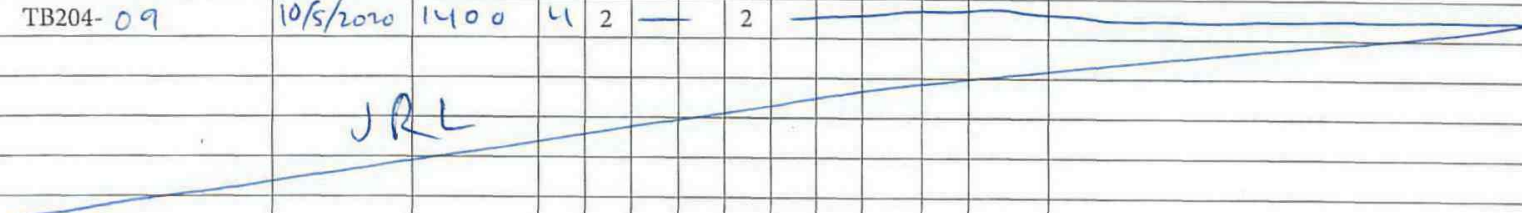
COURIER AND SHIPPING NUMBER:
FedEx 8155 2326 5770

RECEIVED BY:
Nicole Reiff

DATE
10/7/20

TIME
1046

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 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 554-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-09									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01 JL 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14888-JL 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4									
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(8250C) VOCs	(8250C) BTEXN	(8250C) EDB	Total As, Pb, Cu, Cd, Ni, Mn (6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	COMMENTS		
1	TB204-09	10/5/2020	1400	4	2	—	2								
2															
3															
4															
5															
Associated with: GLW236-436-204 GLW236-470-204 GLW236-499-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5770											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston				10/5/2020		1800		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Nicole Reiff				10/7/20		1046	

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-207-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	EDB	Total As, Pb, Cd, Cu, Ni, Mn	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	Methane	COMMENTS
1	GW207-204	10-05-2020	1320	24	9	-	-	6	3	3*	1	1	1		Please see Comments for requested MS/MSD analytes
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe															
SAMPLER(S): G. Begay				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5758 TB204- 10											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Gahrejon Begay				10-05-2020		1800		Printed Name and Signature: Wesley Miller				10/11/2020		1051	
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-10	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PQ NUMBER: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7259													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8260C)	Total As, Pb, Cd, Cr, Ni, Mn (8011)	Dissolved Fe, Mn (8020A8010C)	Chloride, bromide, sulfate (8010C)	Nitrate-Nitrite (3000)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)		
1	TB204-10	10/5/2020	1400	4	2	—	—	2							
2															
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Associated with: GW207204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5758											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/5/2020	1800	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Wesley Miller				10/7/2020	151				

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225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER			
												COC-038-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As, Pb, Cd, Cu, Ni, Mn (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	Methane (MSK-175)	COMMENTS
1	GW038-204	10-5-2020	1221	24	9	→	6	3	3*	1	1	1	—		Please see Comments for requested MS/MSD analytes
2															
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please run MS/MSD on the following analytes only:
 VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe

Pump SN: 1807B-710

D. Schneelk

TB204-08

SAMPLER(S):				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5780			
RELINQUISHED BY:				RECEIVED BY:			
Printed Name and Signature:		DATE		TIME		DATE	
D. Schneelk		10-5-20		1800			
Printed Name and Signature:		DATE		TIME		DATE	
Printed Name and Signature:		DATE		TIME		DATE	

⑧ MR 25584 10/17/20
 Received at 10:45;
 12/18/2020 (Rev. 1)

and

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204- 08	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM04-JL 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295 44888JL				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEN (8260C)	EDB (9011)	Total As, Pb, Cd, Cr, Ni, Mn (6020A6010C)	Dissolved Fe, Mn (6020A6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204- 08	10/5/2020	1400	4	2	—	2								
2															
3															
4															
5															
Associated with: GW038-204															
SAMPLER(S): J Livhysten				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5780											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livhysten				10/5/2020	1800	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Reiff				10/7/20	1546				

nr

Received at 10:45; missed 12/18/2020 (Rev. 1)

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-007-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, K, Hg, Mg) (6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Comments	
1	GW007-204	10-5-2020	0945	10	3	—	2	1	1*	1	1	1			
2															
3															
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5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk [Signature] 10-5-2020 1800 DATE: 10-5-2020 TIME: 1800 COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5806 RECEIVED BY: [Signature] 10/7/20 1557 DATE: 10/7/20 TIME: 1557 Printed Name and Signature: Nicole Reiff [Signature] DATE: 10/7/20 TIME: 1557 TB204- 06 Arrived at 10:45: never															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-235-438-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (9011)	Total (As, Pb, Cd, Ni, Mn, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (355.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (354.2/308)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW235-438-204	10-05-2020	1015	10	3	-	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
Galveston Beyne

RELINQUISHED BY:
Galveston Beyne

DATE
10-05-2020

TIME
1800

COURIER AND SHIPPING NUMBER:
FedEx 8155 2326 5806

RECEIVED BY:
Nicole Ruff

DATE
10/17/20

TIME
1557

Printed Name and Signature:
Galveston Beyne

Printed Name and Signature:
Nicole Ruff

ML

⑧ MR 25684 Received at 1045:
10/17/20 never signed
12/18/2020 (Rev. 1)

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

PROJECT SITE AND PHASE:
ST106/SS111

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

Lab PO Number: 21295

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-235-501-204

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR: 2020
QUARTER: 4 (Oct-Dec)

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Hg, Mn) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW235-501-204	10-05-2020	1045	10	3	-	-	2	1	1*	1	1	1			
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Begay*

RELINQUISHED BY: *G. Begay* DATE: 10-05-2020 TIME: 1800

Printed Name and Signature: *Gabea Begay*

Printed Name and Signature: _____

Printed Name and Signature: _____

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5806

RECEIVED BY: _____ DATE: _____ TIME: _____

Printed Name and Signature: _____

Printed Name and Signature: _____

Printed Name and Signature: *Nicole Ruff* 10/7/20 1557

ml

Received at 1045:
Never signed

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225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER									
COC-TB204- 06															
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eest.com EA Amanda Smith: asmith@eest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	EDB	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300 D)	Nitrate-Nitrite (353 2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS			
1	TB204- 06	10/5/2020	1400	4	2	—	2	—	—	—	—	JRL			
2															
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4															
5															
Associated with: GW007-204 GW235-438-204 GW235-501-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5806											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston				10/5/2020		1800		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

mk

10/7/20 1557
 @MRF-25684
 Received at 1045
 never signed
 12/18/2020 (Rev. 1)

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-16365-1

Login Number: 16365**List Number: 1****Creator: Reiff, Nicole L****List Source: Eurofins Lancaster Laboratories Env**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-16376-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
10/27/2020 4:00:38 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

* Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
10/27/2020 4:00:38 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Job ID: 410-16376-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-16376-1

Comments

No additional comments.

Receipt

The samples were received on 10/7/2020 11:05 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.7° C, 1.1° C, 1.3° C, 1.4° C and 1.6° C.

GC/MS VOA

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-54427 recovered above the upper control limit for 1,1-Dichloroethene, Acetone and Tetrachloroethene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW029-204 (410-16376-1), GW030-204 (410-16376-2), GW031-204 (410-16376-3), TB204-11 (410-16376-4), GW083-204 (410-16376-5), GW204-204 (410-16376-6), GW205-204 (410-16376-7), TB204-15 (410-16376-8), GW231-204 (410-16376-9), GW232-204 (410-16376-10), GW242-418-204 (410-16376-11), TB204-12 (410-16376-12), GW208-204 (410-16376-13), GW208-604 (410-16376-14), GW209-204 (410-16376-15), TB204-14 (410-16376-16), GW021-204 (410-16376-17), GW039-204 (410-16376-18), GW082-204 (410-16376-19) and TB204-13 (410-16376-20). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8011: Surrogate recovery for the following sample was outside the upper control limit: GW021-204 (410-16376-17). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8011: The LIMS software is reversing the quant values for this sample: however, the ECD signals are correct, with the correct values assigned. The sample result is ND, so the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW029-204

Lab Sample ID: 410-16376-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	67	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	120	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	66		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	9.4		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	85		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	85		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	2.7		0.20	0.18	0.080	mg/L	2			353.2	Total/NA

Client Sample ID: GW030-204

Lab Sample ID: 410-16376-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	1.4	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	62	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	72	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	64	B	0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	8.8	B	0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	86		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	86		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	2.2		0.20	0.18	0.080	mg/L	2			353.2	Total/NA

Client Sample ID: GW031-204

Lab Sample ID: 410-16376-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	1.7	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	81	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	120	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	85		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	12		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.5		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	30		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.000072	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	85		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW031-204 (Continued)

Lab Sample ID: 410-16376-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	85		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.2		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: TB204-11

Lab Sample ID: 410-16376-4

No Detections.

Client Sample ID: GW083-204

Lab Sample ID: 410-16376-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.1		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.016	J	0.029	0.019	0.0097	ug/L	1		8011	Total/NA
Chloride	11	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	32	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	40		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	5.7		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.3		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	23		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Manganese	0.12		0.010	0.0052	0.0031	mg/L	1		6010C	Recoverable Dissolved
Arsenic	0.00078	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW204-204

Lab Sample ID: 410-16376-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	2.0	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	120	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	110	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	89		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	12		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	3.6		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	36		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Bicarbonate Alkalinity as CaCO ₃	94		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	94		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.5		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: GW205-204

Lab Sample ID: 410-16376-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.6	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	72	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	65	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW205-204 (Continued)

Lab Sample ID: 410-16376-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	63		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	8.7		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.5		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	31		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.8		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: TB204-15

Lab Sample ID: 410-16376-8

No Detections.

Client Sample ID: GW231-204

Lab Sample ID: 410-16376-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	2.2	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	140	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	38	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	84		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	12		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.7		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	36		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	84		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	84		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW232-204

Lab Sample ID: 410-16376-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	1.6	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	60	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	58	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	60		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	8.3		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.0		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	28		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00072	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	93		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	93		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW232-204 (Continued)

Lab Sample ID: 410-16376-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	1.6		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW242-418-204

Lab Sample ID: 410-16376-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.51	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Bromide	2.5	D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	150	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	130	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	140	B	0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	20	B	0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.5		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	42		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	5.2		0.50	0.45	0.20	mg/L	5		353.2	Total/NA

Client Sample ID: TB204-12

Lab Sample ID: 410-16376-12

No Detections.

Client Sample ID: GW208-204

Lab Sample ID: 410-16376-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	44	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	49	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	49		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.7		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00080	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	97		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	97		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.96		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW208-604

Lab Sample ID: 410-16376-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.3	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	45	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	50	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	50		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW208-604 (Continued)

Lab Sample ID: 410-16376-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	6.9		0.10	0.075	0.040	mg/L	1			6010C	Total
Potassium	2.8		0.50	0.38	0.20	mg/L	1			6010C	Recoverable
Sodium	27		1.0	0.50	0.24	mg/L	1			6010C	Total
Bicarbonate Alkalinity as CaCO ₃	97		8.0	6.0	8.0	mg/L	1			2320B-2011	Recoverable
Total Alkalinity as CaCO ₃ to pH 4.5	97		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.94		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW209-204

Lab Sample ID: 410-16376-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	13	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	30	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	36		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	5.0		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	23		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Arsenic	0.00081	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.086	J	0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: TB204-14

Lab Sample ID: 410-16376-16

No Detections.

Client Sample ID: GW021-204

Lab Sample ID: 410-16376-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	12	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	18	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	29		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	2.8		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	12		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Lead	0.00020	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total
Bicarbonate Alkalinity as CaCO ₃	68		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	68		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW039-204

Lab Sample ID: 410-16376-18

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.92	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Bromide	1.6	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	67	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	93	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	83	B	0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	11	B	0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	34		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Lead	0.000082	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.1		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW082-204

Lab Sample ID: 410-16376-19

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.79	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Toluene	0.84	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	58	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	54	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	62	J1	0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	8.9	J1	0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9	J1	0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	27	J1	1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.076		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Bicarbonate Alkalinity as CaCO3	140		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	140	J1	8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-13

Lab Sample ID: 410-16376-20

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW029-204

Lab Sample ID: 410-16376-1

Date Collected: 10/06/20 13:40

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:13	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 00:13	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:13	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:13	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:13	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:13	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:13	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 00:13	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 00:13	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 00:13	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 00:13	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 00:13	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 00:13	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 00:13	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:13	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 00:13	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 00:13	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW029-204

Lab Sample ID: 410-16376-1

Date Collected: 10/06/20 13:40

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:13	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:13	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:13	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 00:13	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:13	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:13	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 00:13	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:13	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/15/20 00:13	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/15/20 00:13	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 00:13	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 00:13	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/10/20 00:55	10/15/20 00:53	1
1,1,2,2-Tetrachloroethane (2C)	87		46 - 136	10/10/20 00:55	10/15/20 00:53	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.5	J D	2.5	2.0	1.3	mg/L		10/13/20 11:06	5
Chloride	67	D	20	15	10	mg/L		10/13/20 11:23	50
Sulfate	120	D	50	45	15	mg/L		10/13/20 11:23	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	66		0.20	0.15	0.096	mg/L		10/19/20 10:01	1
Magnesium	9.4		0.10	0.075	0.040	mg/L		10/19/20 10:01	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/19/20 10:01	1
Sodium	24		1.0	0.50	0.24	mg/L		10/19/20 10:01	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 22:51	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW029-204

Lab Sample ID: 410-16376-1

Date Collected: 10/06/20 13:40

Matrix: Water

Date Received: 10/07/20 11:05

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/13/20 22:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:36	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 14:36	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	85		8.0	6.0	8.0	mg/L		10/10/20 00:34	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 00:34	1
Total Alkalinity as CaCO ₃ to pH 4.5	85		8.0	6.0	8.0	mg/L		10/10/20 00:34	1
Nitrate Nitrite as N	2.7		0.20	0.18	0.080	mg/L		10/22/20 12:17	2

Client Sample ID: GW030-204

Lab Sample ID: 410-16376-2

Date Collected: 10/06/20 13:10

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:33	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 00:33	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:33	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:33	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:33	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:33	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 00:33	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 00:33	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 00:33	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 00:33	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 00:33	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 00:33	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW030-204

Lab Sample ID: 410-16376-2

Date Collected: 10/06/20 13:10

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 00:33	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:33	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 00:33	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 00:33	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:33	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:33	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:33	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 00:33	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:33	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:33	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 00:33	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:33	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/15/20 00:33	1
4-Bromofluorobenzene (Surr)	91		85 - 114		10/15/20 00:33	1
Dibromofluoromethane (Surr)	98		80 - 119		10/15/20 00:33	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 00:33	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 01:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW030-204

Lab Sample ID: 410-16376-2

Date Collected: 10/06/20 13:10

Matrix: Water

Date Received: 10/07/20 11:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136	10/10/20 00:55	10/15/20 01:10	1
1,1,2,2-Tetrachloroethane (2C)	87		46 - 136	10/10/20 00:55	10/15/20 01:10	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.4	J D	2.5	2.0	1.3	mg/L		10/13/20 11:40	5
Chloride	62	D	20	15	10	mg/L		10/13/20 11:57	50
Sulfate	72	D	5.0	4.5	1.5	mg/L		10/13/20 11:40	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	64	B	0.20	0.15	0.096	mg/L		10/14/20 12:51	1
Magnesium	8.8	B	0.10	0.075	0.040	mg/L		10/14/20 12:51	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/14/20 12:51	1
Sodium	25		1.0	0.50	0.24	mg/L		10/14/20 12:51	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 23:01	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/13/20 23:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:29	1
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L		10/13/20 14:29	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	86		8.0	6.0	8.0	mg/L		10/10/20 01:55	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 01:55	1
Total Alkalinity as CaCO ₃ to pH 4.5	86		8.0	6.0	8.0	mg/L		10/10/20 01:55	1
Nitrate Nitrite as N	2.2		0.20	0.18	0.080	mg/L		10/22/20 12:18	2

Client Sample ID: GW031-204

Lab Sample ID: 410-16376-3

Date Collected: 10/06/20 12:30

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:54	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 00:54	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:54	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:54	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW031-204

Lab Sample ID: 410-16376-3

Date Collected: 10/06/20 12:30

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:54	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:54	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:54	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 00:54	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 00:54	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 00:54	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 00:54	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 00:54	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 00:54	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 00:54	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:54	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 00:54	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 00:54	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:54	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 00:54	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 00:54	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 00:54	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 00:54	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 00:54	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW031-204

Lab Sample ID: 410-16376-3

Date Collected: 10/06/20 12:30

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 00:54	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 00:54	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/15/20 00:54	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/15/20 00:54	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 00:54	1
Toluene-d8 (Surr)	95		89 - 112		10/15/20 00:54	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/15/20 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136	10/10/20 00:55	10/15/20 01:27	1
1,1,2,2-Tetrachloroethane (2C)	87		46 - 136	10/10/20 00:55	10/15/20 01:27	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.7	J D	2.5	2.0	1.3	mg/L		10/13/20 12:14	5
Chloride	81	D	20	15	10	mg/L		10/13/20 12:31	50
Sulfate	120	D	50	45	15	mg/L		10/13/20 12:31	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	85		0.20	0.15	0.096	mg/L		10/19/20 10:13	1
Magnesium	12		0.10	0.075	0.040	mg/L		10/19/20 10:13	1
Potassium	3.5		0.50	0.38	0.20	mg/L		10/19/20 10:13	1
Sodium	30		1.0	0.50	0.24	mg/L		10/19/20 10:13	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:49	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 14:49	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L		10/12/20 18:16	1
Lead	0.000072	J	0.00050	0.00025	0.000071	mg/L		10/12/20 18:16	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	85		8.0	6.0	8.0	mg/L		10/10/20 01:47	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 01:47	1
Total Alkalinity as CaCO3 to pH 4.5	85		8.0	6.0	8.0	mg/L		10/10/20 01:47	1
Nitrate Nitrite as N	2.2		0.20	0.18	0.080	mg/L		10/22/20 12:20	2

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-11

Lab Sample ID: 410-16376-4

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:53	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/14/20 22:53	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 22:53	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 22:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 22:53	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:53	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 22:53	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:53	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 22:53	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 22:53	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/14/20 22:53	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/14/20 22:53	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/14/20 22:53	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/14/20 22:53	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/14/20 22:53	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:53	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 22:53	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/14/20 22:53	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-11

Lab Sample ID: 410-16376-4

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 22:53	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:53	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 22:53	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 22:53	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:53	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 22:53	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/14/20 22:53	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:53	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/14/20 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/14/20 22:53	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/14/20 22:53	1
Dibromofluoromethane (Surr)	95		80 - 119		10/14/20 22:53	1
Toluene-d8 (Surr)	96		89 - 112		10/14/20 22:53	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/15/20 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136	10/10/20 00:55	10/15/20 01:44	1
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136	10/10/20 00:55	10/15/20 01:44	1

Client Sample ID: GW083-204

Lab Sample ID: 410-16376-5

Date Collected: 10/06/20 09:51

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:14	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 01:14	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW083-204

Lab Sample ID: 410-16376-5

Date Collected: 10/06/20 09:51

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 01:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:14	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:14	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:14	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:14	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 01:14	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 01:14	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 01:14	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 01:14	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 01:14	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 01:14	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 01:14	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:14	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 01:14	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 01:14	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 01:14	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:14	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 01:14	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 01:14	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW083-204

Lab Sample ID: 410-16376-5

Date Collected: 10/06/20 09:51

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:14	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Toluene	1.1		1.0	0.50	0.20	ug/L		10/15/20 01:14	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 01:14	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:14	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/15/20 01:14	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/15/20 01:14	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 01:14	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 01:14	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.016	J	0.029	0.019	0.0097	ug/L		10/15/20 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136	10/10/20 00:55	10/15/20 02:00	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/10/20 00:55	10/15/20 02:00	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 12:48	5
Chloride	11	D	2.0	1.5	1.0	mg/L		10/13/20 12:48	5
Sulfate	32	D	5.0	4.5	1.5	mg/L		10/13/20 12:48	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	40		0.20	0.15	0.096	mg/L		10/19/20 10:10	1
Magnesium	5.7		0.10	0.075	0.040	mg/L		10/19/20 10:10	1
Potassium	2.3		0.50	0.38	0.20	mg/L		10/19/20 10:10	1
Sodium	23		1.0	0.50	0.24	mg/L		10/19/20 10:10	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 22:54	1
Manganese	0.12		0.010	0.0052	0.0031	mg/L		10/13/20 22:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00078	J	0.0020	0.0016	0.00068	mg/L		10/12/20 18:14	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 18:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L		10/10/20 00:19	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW083-204

Lab Sample ID: 410-16376-5

Date Collected: 10/06/20 09:51

Matrix: Water

Date Received: 10/07/20 11:05

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 00:19	1
Total Alkalinity as CaCO₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/10/20 00:19	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 12:13	1

Client Sample ID: GW204-204

Lab Sample ID: 410-16376-6

Date Collected: 10/06/20 14:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:34	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 01:34	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:34	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 01:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:34	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:34	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:34	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:34	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 01:34	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 01:34	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 01:34	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 01:34	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 01:34	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 01:34	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 01:34	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:34	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:34	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:34	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW204-204

Lab Sample ID: 410-16376-6

Date Collected: 10/06/20 14:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/15/20 01:34	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L	—	10/15/20 01:34	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/15/20 01:34	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/15/20 01:34	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/15/20 01:34	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/15/20 01:34	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/15/20 01:34	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/15/20 01:34	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L	—	10/15/20 01:34	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/15/20 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/15/20 01:34	1
4-Bromofluorobenzene (Surr)	91		85 - 114		10/15/20 01:34	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 01:34	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 01:34	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L	—	10/15/20 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	108		46 - 136	10/10/20 00:55	10/15/20 02:17	1
1,1,2,2-Tetrachloroethane (2C)	90		46 - 136	10/10/20 00:55	10/15/20 02:17	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	J D	2.5	2.0	1.3	mg/L	—	10/13/20 13:56	5
Chloride	120	D	20	15	10	mg/L	—	10/13/20 14:13	50
Sulfate	110	D	50	45	15	mg/L	—	10/13/20 14:13	50

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW204-204

Lab Sample ID: 410-16376-6

Date Collected: 10/06/20 14:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	89		0.20	0.15	0.096	mg/L		10/19/20 09:57	1
Magnesium	12		0.10	0.075	0.040	mg/L		10/19/20 09:57	1
Potassium	3.6		0.50	0.38	0.20	mg/L		10/19/20 09:57	1
Sodium	36		1.0	0.50	0.24	mg/L		10/19/20 09:57	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:43	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 14:43	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/12/20 17:54	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 17:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	94		8.0	6.0	8.0	mg/L		10/10/20 01:32	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 01:32	1
Total Alkalinity as CaCO ₃ to pH 4.5	94		8.0	6.0	8.0	mg/L		10/10/20 01:32	1
Nitrate Nitrite as N	2.5		0.20	0.18	0.080	mg/L		10/22/20 12:21	2

Client Sample ID: GW205-204

Lab Sample ID: 410-16376-7

Date Collected: 10/06/20 14:15

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:54	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 01:54	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:54	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 01:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:54	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:54	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:54	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:54	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 01:54	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW205-204

Lab Sample ID: 410-16376-7

Date Collected: 10/06/20 14:15

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 01:54	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 01:54	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 01:54	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 01:54	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 01:54	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 01:54	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:54	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 01:54	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 01:54	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 01:54	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 01:54	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 01:54	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 01:54	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 01:54	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 01:54	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 01:54	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 01:54	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/15/20 01:54	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/15/20 01:54	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW205-204

Lab Sample ID: 410-16376-7

Date Collected: 10/06/20 14:15

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 01:54	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 01:54	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 02:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	108		46 - 136	10/10/20 00:55	10/15/20 02:34	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/10/20 00:55	10/15/20 02:34	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.6	J D	2.5	2.0	1.3	mg/L		10/13/20 15:22	5
Chloride	72	D	20	15	10	mg/L		10/13/20 15:39	50
Sulfate	65	D	5.0	4.5	1.5	mg/L		10/13/20 15:22	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	63		0.20	0.15	0.096	mg/L		10/19/20 10:04	1
Magnesium	8.7		0.10	0.075	0.040	mg/L		10/19/20 10:04	1
Potassium	3.5		0.50	0.38	0.20	mg/L		10/19/20 10:04	1
Sodium	31		1.0	0.50	0.24	mg/L		10/19/20 10:04	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 22:48	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/13/20 22:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:37	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 14:37	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/10/20 01:01	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 01:01	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/10/20 01:01	1
Nitrate Nitrite as N	1.8		0.10	0.090	0.040	mg/L		10/22/20 12:22	1

Client Sample ID: TB204-15

Lab Sample ID: 410-16376-8

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:15	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-15

Lab Sample ID: 410-16376-8

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 02:15	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:15	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:15	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:15	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:15	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:15	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 02:15	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 02:15	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 02:15	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 02:15	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 02:15	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 02:15	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 02:15	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:15	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 02:15	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 02:15	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:15	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:15	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:15	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-15

Lab Sample ID: 410-16376-8

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 02:15	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:15	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:15	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 02:15	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:15	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/15/20 02:15	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/15/20 02:15	1
Dibromofluoromethane (Surr)	98		80 - 119		10/15/20 02:15	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 02:15	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/15/20 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/10/20 00:55	10/15/20 02:51	1
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136	10/10/20 00:55	10/15/20 02:51	1

Client Sample ID: GW231-204

Lab Sample ID: 410-16376-9

Date Collected: 10/06/20 10:05

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:35	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 02:35	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:35	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:35	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW231-204

Lab Sample ID: 410-16376-9

Date Collected: 10/06/20 10:05

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:35	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:35	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 02:35	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 02:35	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 02:35	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 02:35	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 02:35	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 02:35	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 02:35	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:35	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 02:35	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 02:35	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:35	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:35	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:35	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 02:35	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:35	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:35	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW231-204

Lab Sample ID: 410-16376-9

Date Collected: 10/06/20 10:05

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 02:35	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:35	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/15/20 02:35	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/15/20 02:35	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 02:35	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 02:35	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136	10/10/20 00:55	10/15/20 03:07	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/10/20 00:55	10/15/20 03:07	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.2	J D	2.5	2.0	1.3	mg/L		10/13/20 14:30	5
Chloride	140	D	20	15	10	mg/L		10/21/20 21:37	50
Sulfate	38	D	5.0	4.5	1.5	mg/L		10/13/20 14:30	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	84		0.20	0.15	0.096	mg/L		10/19/20 10:16	1
Magnesium	12		0.10	0.075	0.040	mg/L		10/19/20 10:16	1
Potassium	3.7		0.50	0.38	0.20	mg/L		10/19/20 10:16	1
Sodium	36		1.0	0.50	0.24	mg/L		10/19/20 10:16	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:40	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 14:40	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/12/20 18:18	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 18:18	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	84		8.0	6.0	8.0	mg/L		10/10/20 00:26	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 00:26	1
Total Alkalinity as CaCO ₃ to pH 4.5	84		8.0	6.0	8.0	mg/L		10/10/20 00:26	1
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L		10/22/20 12:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW232-204

Lab Sample ID: 410-16376-10

Date Collected: 10/06/20 10:35

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:55	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 02:55	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:55	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:55	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:55	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:55	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:55	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 02:55	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 02:55	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 02:55	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 02:55	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 02:55	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 02:55	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 02:55	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:55	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 02:55	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 02:55	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW232-204

Lab Sample ID: 410-16376-10

Date Collected: 10/06/20 10:35

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:55	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 02:55	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 02:55	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 02:55	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 02:55	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 02:55	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 02:55	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 02:55	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/15/20 02:55	1
4-Bromofluorobenzene (Surr)	90		85 - 114		10/15/20 02:55	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 02:55	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 02:55	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/15/20 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136	10/10/20 00:55	10/15/20 03:24	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/10/20 00:55	10/15/20 03:24	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.6	J D	2.5	2.0	1.3	mg/L		10/13/20 15:56	5
Chloride	60	D	20	15	10	mg/L		10/13/20 16:13	50
Sulfate	58	D	5.0	4.5	1.5	mg/L		10/13/20 15:56	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	60		0.20	0.15	0.096	mg/L		10/19/20 10:07	1
Magnesium	8.3		0.10	0.075	0.040	mg/L		10/19/20 10:07	1
Potassium	3.0		0.50	0.38	0.20	mg/L		10/19/20 10:07	1
Sodium	28		1.0	0.50	0.24	mg/L		10/19/20 10:07	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW232-204

Lab Sample ID: 410-16376-10

Date Collected: 10/06/20 10:35

Matrix: Water

Date Received: 10/07/20 11:05

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 14:46	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00072	J	0.0020	0.0016	0.00068	mg/L		10/12/20 18:12	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 18:12	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	93		8.0	6.0	8.0	mg/L		10/10/20 00:42	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 00:42	1
Total Alkalinity as CaCO ₃ to pH 4.5	93		8.0	6.0	8.0	mg/L		10/10/20 00:42	1
Nitrate Nitrite as N	1.6		0.10	0.090	0.040	mg/L		10/22/20 12:27	1

Client Sample ID: GW242-418-204

Lab Sample ID: 410-16376-11

Date Collected: 10/06/20 11:15

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:15	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 03:15	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:15	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:15	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:15	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:15	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:15	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 03:15	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 03:15	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 03:15	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 03:15	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 03:15	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 03:15	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW242-418-204

Lab Sample ID: 410-16376-11

Date Collected: 10/06/20 11:15

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 03:15	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:15	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Chloroform	0.51	J	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 03:15	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 03:15	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:15	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:15	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:15	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 03:15	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:15	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:15	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 03:15	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:15	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/15/20 03:15	1
4-Bromofluorobenzene (Surr)	90		85 - 114		10/15/20 03:15	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 03:15	1
Toluene-d8 (Surr)	95		89 - 112		10/15/20 03:15	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.029	0.019	0.0097	ug/L		10/15/20 04:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW242-418-204

Lab Sample ID: 410-16376-11

Date Collected: 10/06/20 11:15

Matrix: Water

Date Received: 10/07/20 11:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/10/20 00:55	10/15/20 04:14	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/10/20 00:55	10/15/20 04:14	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.5	D	2.5	2.0	1.3	mg/L		10/13/20 17:04	5
Chloride	150	D	20	15	10	mg/L		10/13/20 17:21	50
Sulfate	130	D	50	45	15	mg/L		10/13/20 17:21	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	140	B	0.20	0.15	0.096	mg/L		10/14/20 13:00	1
Magnesium	20	B	0.10	0.075	0.040	mg/L		10/14/20 13:00	1
Potassium	4.5		0.50	0.38	0.20	mg/L		10/14/20 13:00	1
Sodium	42		1.0	0.50	0.24	mg/L		10/14/20 13:00	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:27	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 14:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:25	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 14:25	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/10/20 00:11	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 00:11	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/10/20 00:11	1
Nitrate Nitrite as N	5.2		0.50	0.45	0.20	mg/L		10/22/20 12:28	5

Client Sample ID: TB204-12

Lab Sample ID: 410-16376-12

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:13	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/14/20 23:13	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:13	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:13	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-12

Lab Sample ID: 410-16376-12

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:13	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:13	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:13	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 23:13	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 23:13	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/14/20 23:13	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/14/20 23:13	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/14/20 23:13	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/14/20 23:13	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/14/20 23:13	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:13	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 23:13	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/14/20 23:13	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:13	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:13	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:13	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 23:13	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:13	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:13	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-12

Lab Sample ID: 410-16376-12

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/14/20 23:13	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:13	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/14/20 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/14/20 23:13	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/14/20 23:13	1
Dibromofluoromethane (Surr)	96		80 - 119		10/14/20 23:13	1
Toluene-d8 (Surr)	97		89 - 112		10/14/20 23:13	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/15/20 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136	10/10/20 00:55	10/15/20 04:31	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/10/20 00:55	10/15/20 04:31	1

Client Sample ID: GW208-204

Lab Sample ID: 410-16376-13

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:35	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 03:35	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:35	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:35	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:35	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:35	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 03:35	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW208-204

Lab Sample ID: 410-16376-13

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 03:35	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 03:35	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 03:35	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 03:35	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 03:35	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 03:35	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:35	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 03:35	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 03:35	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:35	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:35	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:35	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 03:35	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:35	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:35	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 03:35	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:35	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	104		81 - 118				10/15/20 03:35	1	
4-Bromofluorobenzene (Surr)	91		85 - 114				10/15/20 03:35	1	

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW208-204

Lab Sample ID: 410-16376-13

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 119		10/15/20 03:35	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 03:35	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136	10/10/20 00:55	10/15/20 04:48	1
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136	10/10/20 00:55	10/15/20 04:48	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.5	J D	2.5	2.0	1.3	mg/L		10/13/20 17:38	5
Chloride	44	D	20	15	10	mg/L		10/13/20 17:55	50
Sulfate	49	D	5.0	4.5	1.5	mg/L		10/13/20 17:38	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	49		0.20	0.15	0.096	mg/L		10/19/20 09:45	1
Magnesium	6.7		0.10	0.075	0.040	mg/L		10/19/20 09:45	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/19/20 09:45	1
Sodium	26		1.0	0.50	0.24	mg/L		10/19/20 09:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 16:46	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 16:46	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00080	J	0.0020	0.0016	0.00068	mg/L		10/12/20 17:57	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 17:57	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	97		8.0	6.0	8.0	mg/L		10/09/20 23:55	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 23:55	1
Total Alkalinity as CaCO3 to pH 4.5	97		8.0	6.0	8.0	mg/L		10/09/20 23:55	1
Nitrate Nitrite as N	0.96		0.10	0.090	0.040	mg/L		10/22/20 12:30	1

Client Sample ID: GW208-604

Lab Sample ID: 410-16376-14

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:55	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW208-604

Lab Sample ID: 410-16376-14

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 03:55	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:55	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:55	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:55	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:55	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:55	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 03:55	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 03:55	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 03:55	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 03:55	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 03:55	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 03:55	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 03:55	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:55	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 03:55	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 03:55	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:55	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 03:55	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 03:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW208-604

Lab Sample ID: 410-16376-14

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 03:55	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 03:55	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 03:55	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 03:55	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 03:55	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/15/20 03:55	1
4-Bromofluorobenzene (Surr)	91		85 - 114		10/15/20 03:55	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 03:55	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 03:55	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/15/20 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136	10/10/20 00:55	10/15/20 05:04	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/10/20 00:55	10/15/20 05:04	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.3	J D	2.5	2.0	1.3	mg/L		10/13/20 18:12	5
Chloride	45	D	20	15	10	mg/L		10/13/20 18:29	50
Sulfate	50	D	5.0	4.5	1.5	mg/L		10/13/20 18:12	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	50		0.20	0.15	0.096	mg/L		10/19/20 09:54	1
Magnesium	6.9		0.10	0.075	0.040	mg/L		10/19/20 09:54	1
Potassium	2.8		0.50	0.38	0.20	mg/L		10/19/20 09:54	1
Sodium	27		1.0	0.50	0.24	mg/L		10/19/20 09:54	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 16:40	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 16:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW208-604

Lab Sample ID: 410-16376-14

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/12/20 18:21	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 18:21	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	97		8.0	6.0	8.0	mg/L		10/10/20 01:09	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 01:09	1
Total Alkalinity as CaCO ₃ to pH 4.5	97		8.0	6.0	8.0	mg/L		10/10/20 01:09	1
Nitrate Nitrite as N	0.94		0.10	0.090	0.040	mg/L		10/22/20 12:59	1

Client Sample ID: GW209-204

Lab Sample ID: 410-16376-15

Date Collected: 10/06/20 09:30

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:16	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 04:16	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:16	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:16	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:16	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:16	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:16	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 04:16	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 04:16	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 04:16	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 04:16	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 04:16	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 04:16	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 04:16	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW209-204

Lab Sample ID: 410-16376-15

Date Collected: 10/06/20 09:30

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:16	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 04:16	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 04:16	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:16	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:16	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:16	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 04:16	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:16	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:16	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 04:16	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:16	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/15/20 04:16	1
4-Bromofluorobenzene (Surr)	90		85 - 114		10/15/20 04:16	1
Dibromofluoromethane (Surr)	98		80 - 119		10/15/20 04:16	1
Toluene-d8 (Surr)	95		89 - 112		10/15/20 04:16	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136	10/10/20 00:55	10/15/20 05:21	1
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/10/20 00:55	10/15/20 05:21	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW209-204

Lab Sample ID: 410-16376-15

Date Collected: 10/06/20 09:30

Matrix: Water

Date Received: 10/07/20 11:05

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 18:46	5
Chloride	13	D	2.0	1.5	1.0	mg/L		10/13/20 18:46	5
Sulfate	30	D	5.0	4.5	1.5	mg/L		10/13/20 18:46	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	36		0.20	0.15	0.096	mg/L		10/19/20 09:42	1
Magnesium	5.0		0.10	0.075	0.040	mg/L		10/19/20 09:42	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/19/20 09:42	1
Sodium	23		1.0	0.50	0.24	mg/L		10/19/20 09:42	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:52	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 14:52	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00081	J	0.0020	0.0016	0.00068	mg/L		10/12/20 17:59	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 17:59	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/10/20 01:17	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 01:17	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/10/20 01:17	1
Nitrate Nitrite as N	0.086	J	0.10	0.090	0.040	mg/L		10/22/20 13:03	1

Client Sample ID: TB204-14

Lab Sample ID: 410-16376-16

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:33	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/14/20 23:33	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:33	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:33	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-14

Lab Sample ID: 410-16376-16

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:33	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 23:33	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 23:33	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/14/20 23:33	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/14/20 23:33	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/14/20 23:33	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/14/20 23:33	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/14/20 23:33	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:33	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 23:33	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/14/20 23:33	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:33	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:33	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:33	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 23:33	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:33	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:33	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-14

Lab Sample ID: 410-16376-16

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/14/20 23:33	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:33	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/14/20 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118					10/14/20 23:33	1
4-Bromofluorobenzene (Surr)	92		85 - 114					10/14/20 23:33	1
Dibromofluoromethane (Surr)	97		80 - 119					10/14/20 23:33	1
Toluene-d8 (Surr)	96		89 - 112					10/14/20 23:33	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/15/20 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136				10/10/20 00:55	10/15/20 05:38	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136				10/10/20 00:55	10/15/20 05:38	1

Client Sample ID: GW021-204

Lab Sample ID: 410-16376-17

Date Collected: 10/06/20 11:40

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:36	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 04:36	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:36	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:36	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:36	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:36	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:36	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 04:36	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 04:36	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 04:36	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 04:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW021-204

Lab Sample ID: 410-16376-17

Date Collected: 10/06/20 11:40

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 04:36	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 04:36	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 04:36	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:36	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 04:36	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 04:36	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:36	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:36	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:36	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 04:36	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:36	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:36	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 04:36	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:36	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/15/20 04:36	1
4-Bromofluorobenzene (Surr)	90		85 - 114		10/15/20 04:36	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 04:36	1
Toluene-d8 (Surr)	95		89 - 112		10/15/20 04:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW021-204

Lab Sample ID: 410-16376-17

Date Collected: 10/06/20 11:40

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 05:55	1
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed
1,1,2,2-Tetrachloroethane (1C)	139	Q	46 - 136					10/10/20 00:55	10/15/20 05:55
1,1,2,2-Tetrachloroethane (2C)	103		46 - 136					10/10/20 00:55	10/15/20 05:55

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 19:20	5
Chloride	12	D	2.0	1.5	1.0	mg/L		10/13/20 19:20	5
Sulfate	18	D	5.0	4.5	1.5	mg/L		10/13/20 19:20	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	29		0.20	0.15	0.096	mg/L		10/16/20 10:36	1
Magnesium	2.8		0.10	0.075	0.040	mg/L		10/16/20 10:36	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/18/20 11:51	1
Sodium	12		1.0	0.50	0.24	mg/L		10/16/20 10:36	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 16:43	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 16:43	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:27	1
Lead	0.00020	J	0.00050	0.00025	0.000071	mg/L		10/13/20 14:27	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	68		8.0	6.0	8.0	mg/L		10/10/20 01:39	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 01:39	1
Total Alkalinity as CaCO ₃ to pH 4.5	68		8.0	6.0	8.0	mg/L		10/10/20 01:39	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 13:04	1

Client Sample ID: GW039-204

Lab Sample ID: 410-16376-18

Date Collected: 10/05/20 14:26

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:56	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 04:56	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW039-204

Lab Sample ID: 410-16376-18

Date Collected: 10/05/20 14:26

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:56	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:56	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:56	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:56	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:56	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 04:56	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 04:56	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 04:56	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/15/20 04:56	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 04:56	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 04:56	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 04:56	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:56	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Chloromethane	0.50	U M	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 04:56	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 04:56	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:56	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 04:56	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 04:56	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 04:56	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW039-204

Lab Sample ID: 410-16376-18

Date Collected: 10/05/20 14:26

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 04:56	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 04:56	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Toluene	0.92	J	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 04:56	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 04:56	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/15/20 04:56	1
4-Bromofluorobenzene (Surr)	90		85 - 114		10/15/20 04:56	1
Dibromofluoromethane (Surr)	97		80 - 119		10/15/20 04:56	1
Toluene-d8 (Surr)	95		89 - 112		10/15/20 04:56	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/14/20 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	109		46 - 136	10/10/20 00:26	10/14/20 09:45	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	10/10/20 00:26	10/14/20 09:45	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.6	J D	2.5	2.0	1.3	mg/L		10/13/20 20:28	5
Chloride	67	D	20	15	10	mg/L		10/13/20 20:45	50
Sulfate	93	D	50	45	15	mg/L		10/13/20 20:45	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	83	B	0.20	0.15	0.096	mg/L		10/14/20 12:57	1
Magnesium	11	B	0.10	0.075	0.040	mg/L		10/14/20 12:57	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/14/20 12:57	1
Sodium	34		1.0	0.50	0.24	mg/L		10/14/20 12:57	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 22:58	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/13/20 22:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:30	1
Lead	0.000082	J	0.00050	0.00025	0.000071	mg/L		10/13/20 14:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW039-204

Lab Sample ID: 410-16376-18

Date Collected: 10/05/20 14:26

Matrix: Water

Date Received: 10/07/20 11:05

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	130		8.0	6.0	8.0	mg/L		10/10/20 01:24	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 01:24	1
Total Alkalinity as CaCO ₃ to pH 4.5	130		8.0	6.0	8.0	mg/L		10/10/20 01:24	1
Nitrate Nitrite as N	2.1		0.10	0.090	0.040	mg/L		10/22/20 14:35	1

Client Sample ID: GW082-204

Lab Sample ID: 410-16376-19

Date Collected: 10/06/20 12:06

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 05:16	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/15/20 05:16	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 05:16	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 05:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 05:16	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 05:16	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 05:16	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 05:16	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 05:16	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/15/20 05:16	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/15/20 05:16	1
Acetone	0.79	J Q	20	2.0	0.70	ug/L		10/15/20 05:16	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/15/20 05:16	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/15/20 05:16	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/15/20 05:16	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 05:16	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW082-204

Lab Sample ID: 410-16376-19

Date Collected: 10/06/20 12:06

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 05:16	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/15/20 05:16	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 05:16	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/15/20 05:16	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/15/20 05:16	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/15/20 05:16	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/15/20 05:16	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/15/20 05:16	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Toluene	0.84	J	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/15/20 05:16	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/15/20 05:16	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/15/20 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/15/20 05:16	1
4-Bromofluorobenzene (Surr)	90		85 - 114		10/15/20 05:16	1
Dibromofluoromethane (Surr)	98		80 - 119		10/15/20 05:16	1
Toluene-d8 (Surr)	96		89 - 112		10/15/20 05:16	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/15/20 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	129		46 - 136	10/10/20 00:55	10/15/20 06:11	1
1,1,2,2-Tetrachloroethane (2C)	105		46 - 136	10/10/20 00:55	10/15/20 06:11	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.5	J D	2.5	2.0	1.3	mg/L		10/13/20 21:02	5
Chloride	58	D	20	15	10	mg/L		10/13/20 21:19	50
Sulfate	54	D	5.0	4.5	1.5	mg/L		10/13/20 21:02	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW082-204

Lab Sample ID: 410-16376-19

Date Collected: 10/06/20 12:06

Matrix: Water

Date Received: 10/07/20 11:05

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	62	J1	0.20	0.15	0.096	mg/L		10/19/20 09:23	1
Magnesium	8.9	J1	0.10	0.075	0.040	mg/L		10/19/20 09:23	1
Potassium	2.9	J1	0.50	0.38	0.20	mg/L		10/19/20 09:23	1
Sodium	27	J1	1.0	0.50	0.24	mg/L		10/19/20 09:23	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:31	1
Manganese	0.076		0.010	0.0052	0.0031	mg/L		10/15/20 14:31	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/12/20 18:23	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 18:23	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	140		8.0	6.0	8.0	mg/L		10/09/20 23:32	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 23:32	1
Total Alkalinity as CaCO ₃ to pH 4.5	140	J1	8.0	6.0	8.0	mg/L		10/09/20 23:32	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 13:07	1

Client Sample ID: TB204-13

Lab Sample ID: 410-16376-20

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:53	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,1-Dichloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/14/20 23:53	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:53	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:53	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:53	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:53	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:53	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 23:53	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-13

Lab Sample ID: 410-16376-20

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 23:53	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/14/20 23:53	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/14/20 23:53	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/14/20 23:53	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/14/20 23:53	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/14/20 23:53	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:53	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 23:53	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/14/20 23:53	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:53	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 23:53	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 23:53	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 23:53	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 23:53	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 23:53	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/14/20 23:53	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 23:53	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/14/20 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118					10/14/20 23:53	1
4-Bromofluorobenzene (Surr)	91		85 - 114					10/14/20 23:53	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: TB204-13

Lab Sample ID: 410-16376-20

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 119		10/14/20 23:53	1
Toluene-d8 (Surr)	96		89 - 112		10/14/20 23:53	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/15/20 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136	10/10/20 00:55	10/15/20 06:28	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/10/20 00:55	10/15/20 06:28	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-16376-1	GW029-204	102	92	97	96
410-16376-2	GW030-204	102	91	98	96
410-16376-3	GW031-204	99	92	97	95
410-16376-4	TB204-11	100	92	95	96
410-16376-5	GW083-204	100	92	97	96
410-16376-6	GW204-204	101	91	97	96
410-16376-7	GW205-204	103	92	97	96
410-16376-8	TB204-15	102	92	98	96
410-16376-9	GW231-204	102	92	97	96
410-16376-10	GW232-204	101	90	97	96
410-16376-11	GW242-418-204	101	90	97	95
410-16376-12	TB204-12	102	92	96	97
410-16376-13	GW208-204	104	91	98	96
410-16376-14	GW208-604	101	91	97	96
410-16376-15	GW209-204	102	90	98	95
410-16376-16	TB204-14	101	92	97	96
410-16376-17	GW021-204	101	90	97	95
410-16376-18	GW039-204	100	90	97	95
410-16376-19	GW082-204	102	90	98	96
410-16376-20	TB204-13	99	91	96	96
LCS 410-54427/5	Lab Control Sample	99	94	95	98
LCS 410-54427/7	Lab Control Sample	98	93	94	97
LCSD 410-54427/6	Lab Control Sample Dup	98	95	96	98
LCSD 410-54427/8	Lab Control Sample Dup	100	92	95	97
MB 410-54427/10	Method Blank	99	93	96	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-16376-1	GW029-204	97	87
410-16376-2	GW030-204	102	87
410-16376-3	GW031-204	100	87
410-16376-4	TB204-11	92	92
410-16376-5	GW083-204	99	93
410-16376-6	GW204-204	108	90
410-16376-7	GW205-204	108	95
410-16376-8	TB204-15	97	92
410-16376-9	GW231-204	96	91
410-16376-10	GW232-204	100	91
410-16376-11	GW242-418-204	104	96
410-16376-12	TB204-12	102	99

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-16376-13	GW208-204	102	94
410-16376-14	GW208-604	102	97
410-16376-15	GW209-204	99	89
410-16376-16	TB204-14	103	98
410-16376-17	GW021-204	139 Q	103
410-16376-18	GW039-204	109	101
410-16376-19	GW082-204	129	105
410-16376-20	TB204-13	105	98
LCS 410-52948/2-A	Lab Control Sample	105	95
LCSD 410-52948/3-A	Lab Control Sample Dup	112	100
MB 410-52948/1-A	Method Blank	109	100

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-54427/10

Matrix: Water

Analysis Batch: 54427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:12	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/14/20 22:12	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 22:12	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 22:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 22:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:12	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 22:12	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:12	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 22:12	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/14/20 22:12	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/14/20 22:12	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/14/20 22:12	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/14/20 22:12	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/14/20 22:12	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/14/20 22:12	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:12	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 22:12	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/14/20 22:12	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-54427/10

Matrix: Water

Analysis Batch: 54427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 22:12	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/14/20 22:12	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/14/20 22:12	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/14/20 22:12	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/14/20 22:12	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/14/20 22:12	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/14/20 22:12	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/14/20 22:12	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/14/20 22:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/14/20 22:12	1
4-Bromofluorobenzene (Surr)	93		85 - 114		10/14/20 22:12	1
Dibromofluoromethane (Surr)	96		80 - 119		10/14/20 22:12	1
Toluene-d8 (Surr)	96		89 - 112		10/14/20 22:12	1

Lab Sample ID: LCS 410-54427/5

Matrix: Water

Analysis Batch: 54427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		104	78 - 124
1,1,1-Trichloroethane	20.0	20.5		ug/L		102	74 - 131
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/L		108	71 - 121
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	80 - 119
1,1-Dichloroethane	20.0	21.0		ug/L		105	77 - 125
1,1-Dichloroethene	20.0	22.5		ug/L		113	71 - 131
1,1-Dichloropropene	20.0	21.1		ug/L		105	79 - 125
1,2,3-Trichlorobenzene	20.0	22.2		ug/L		111	69 - 129
1,2,3-Trichloropropane	20.0	20.9		ug/L		105	73 - 122
1,2,4-Trichlorobenzene	20.0	22.0		ug/L		110	69 - 130
1,2,4-Trimethylbenzene	20.0	20.7		ug/L		103	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.1		ug/L		101	62 - 128
1,2-Dibromoethane	20.0	20.7		ug/L		104	77 - 121
1,2-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 119
1,2-Dichloroethane	20.0	18.9		ug/L		95	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-54427/5

Matrix: Water

Analysis Batch: 54427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.7		ug/L		108	78 - 122
1,3,5-Trimethylbenzene	20.0	21.0		ug/L		105	75 - 124
1,3-Dichlorobenzene	20.0	21.4		ug/L		107	80 - 119
1,3-Dichloropropane	20.0	20.3		ug/L		102	80 - 119
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	79 - 118
2,2-Dichloropropane	20.0	20.0		ug/L		100	60 - 139
2-Butanone	150	148		ug/L		98	56 - 143
2-Chlorotoluene	20.0	21.7		ug/L		109	79 - 122
2-Hexanone	100	97.2		ug/L		97	57 - 139
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122
4-Methyl-2-pentanone	100	100		ug/L		100	67 - 130
Acetone	150	186		ug/L		124	39 - 160
Acrolein	150	148		ug/L		99	39 - 155
Acrylonitrile	100	107		ug/L		107	63 - 135
Benzene	20.0	21.6		ug/L		108	42 - 138
Bromobenzene	20.0	22.2		ug/L		111	80 - 120
Bromochloromethane	20.0	20.8		ug/L		104	78 - 123
Bromodichloromethane	20.0	20.2		ug/L		101	79 - 125
Bromoform	20.0	20.1		ug/L		101	66 - 130
Bromomethane	20.0	20.7		ug/L		104	53 - 141
Carbon disulfide	20.0	21.4		ug/L		107	64 - 133
Carbon tetrachloride	20.0	19.8		ug/L		99	72 - 136
Chlorobenzene	20.0	21.7		ug/L		109	82 - 118
Chloroethane	20.0	19.4		ug/L		97	60 - 138
Chloroform	20.0	20.8		ug/L		104	79 - 124
Chloromethane	20.0	18.0		ug/L		90	50 - 139
cis-1,2-Dichloroethene	20.0	22.8		ug/L		114	78 - 123
cis-1,3-Dichloropropene	20.0	20.1		ug/L		100	75 - 124
Dibromochloromethane	20.0	20.4		ug/L		102	74 - 126
Dibromomethane	20.0	20.7		ug/L		104	79 - 123
Dichlorodifluoromethane	20.0	18.6		ug/L		93	32 - 152
Ethylbenzene	20.0	21.1		ug/L		106	79 - 121
Hexachlorobutadiene	20.0	21.8		ug/L		109	66 - 134
Isopropylbenzene	20.0	21.3		ug/L		107	72 - 131
m&p-Xylene	40.0	43.5		ug/L		109	80 - 121
Methyl tertiary butyl ether	20.0	19.1		ug/L		96	71 - 124
Methylene Chloride	20.0	22.2		ug/L		111	74 - 124
Naphthalene	20.0	21.2		ug/L		106	61 - 128
n-Butylbenzene	20.0	21.0		ug/L		105	75 - 128
N-Propylbenzene	20.0	21.8		ug/L		109	76 - 126
o-Xylene	20.0	21.3		ug/L		106	78 - 122
p-Isopropyltoluene	20.0	21.4		ug/L		107	77 - 127
sec-Butylbenzene	20.0	21.4		ug/L		107	77 - 126
Styrene	20.0	21.3		ug/L		107	78 - 123
tert-Butylbenzene	20.0	20.7		ug/L		103	78 - 124
Tetrachloroethene	20.0	22.3		ug/L		112	74 - 129
Toluene	20.0	21.7		ug/L		109	80 - 121
trans-1,2-Dichloroethene	20.0	22.4		ug/L		112	75 - 124
trans-1,3-Dichloropropene	20.0	18.6		ug/L		93	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-54427/5

Matrix: Water

Analysis Batch: 54427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	21.5		ug/L		108	79 - 123
Trichlorofluoromethane	20.0	20.3		ug/L		102	65 - 141
Vinyl chloride	20.0	19.6		ug/L		98	58 - 137
Xylenes, Total	60.0	64.8		ug/L		108	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: LCS 410-54427/7

Matrix: Water

Analysis Batch: 54427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	102		ug/L		102	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	93		85 - 114
Dibromofluoromethane (Surr)	94		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: LCSD 410-54427/6

Matrix: Water

Analysis Batch: 54427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	78 - 124	0	20
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	74 - 131	2	20
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/L		108	71 - 121	0	20
1,1,2-Trichloroethane	20.0	21.7		ug/L		108	80 - 119	2	20
1,1-Dichloroethane	20.0	20.7		ug/L		104	77 - 125	1	20
1,1-Dichloroethene	20.0	22.0		ug/L		110	71 - 131	2	20
1,1-Dichloropropene	20.0	21.1		ug/L		105	79 - 125	0	20
1,2,3-Trichlorobenzene	20.0	21.7		ug/L		108	69 - 129	2	20
1,2,3-Trichloropropane	20.0	20.8		ug/L		104	73 - 122	0	20
1,2,4-Trichlorobenzene	20.0	21.8		ug/L		109	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	20.3		ug/L		102	76 - 124	2	20
1,2-Dibromo-3-Chloropropane	20.0	19.8		ug/L		99	62 - 128	2	20
1,2-Dibromoethane	20.0	20.6		ug/L		103	77 - 121	1	20
1,2-Dichlorobenzene	20.0	21.5		ug/L		108	80 - 119	1	20
1,2-Dichloroethane	20.0	18.6		ug/L		93	73 - 128	2	20
1,2-Dichloropropane	20.0	21.5		ug/L		107	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	20.5		ug/L		103	75 - 124	2	20
1,3-Dichlorobenzene	20.0	21.3		ug/L		107	80 - 119	0	20
1,3-Dichloropropane	20.0	20.1		ug/L		101	80 - 119	1	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-54427/6

Matrix: Water

Analysis Batch: 54427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	21.3		ug/L		107	79 - 118	2	20
2,2-Dichloropropane	20.0	19.9		ug/L		100	60 - 139	0	20
2-Butanone	150	149		ug/L		99	56 - 143	1	20
2-Chlorotoluene	20.0	21.2		ug/L		106	79 - 122	3	20
2-Hexanone	100	98.5		ug/L		98	57 - 139	1	20
4-Chlorotoluene	20.0	21.4		ug/L		107	78 - 122	2	20
4-Methyl-2-pentanone	100	101		ug/L		101	67 - 130	1	20
Acetone	150	171		ug/L		114	39 - 160	9	20
Acrolein	150	141		ug/L		94	39 - 155	5	20
Acrylonitrile	100	107		ug/L		107	63 - 135	0	20
Benzene	20.0	21.3		ug/L		106	42 - 138	2	20
Bromobenzene	20.0	21.5		ug/L		107	80 - 120	3	20
Bromochloromethane	20.0	20.5		ug/L		103	78 - 123	1	20
Bromodichloromethane	20.0	20.0		ug/L		100	79 - 125	1	20
Bromoform	20.0	19.9		ug/L		100	66 - 130	1	20
Bromomethane	20.0	20.4		ug/L		102	53 - 141	1	20
Carbon disulfide	20.0	21.0		ug/L		105	64 - 133	2	20
Carbon tetrachloride	20.0	19.5		ug/L		98	72 - 136	2	20
Chlorobenzene	20.0	21.4		ug/L		107	82 - 118	1	20
Chloroethane	20.0	19.0		ug/L		95	60 - 138	2	20
Chloroform	20.0	20.3		ug/L		102	79 - 124	2	20
Chloromethane	20.0	17.9		ug/L		90	50 - 139	0	20
cis-1,2-Dichloroethene	20.0	22.4		ug/L		112	78 - 123	2	20
cis-1,3-Dichloropropene	20.0	19.9		ug/L		100	75 - 124	1	20
Dibromochloromethane	20.0	20.3		ug/L		101	74 - 126	0	20
Dibromomethane	20.0	20.6		ug/L		103	79 - 123	0	20
Dichlorodifluoromethane	20.0	19.0		ug/L		95	32 - 152	2	20
Ethylbenzene	20.0	21.0		ug/L		105	79 - 121	1	20
Hexachlorobutadiene	20.0	22.0		ug/L		110	66 - 134	1	20
Isopropylbenzene	20.0	21.1		ug/L		105	72 - 131	1	20
m&p-Xylene	40.0	42.9		ug/L		107	80 - 121	1	20
Methyl tertiary butyl ether	20.0	18.9		ug/L		95	71 - 124	1	20
Methylene Chloride	20.0	21.4		ug/L		107	74 - 124	4	20
Naphthalene	20.0	21.1		ug/L		106	61 - 128	0	20
n-Butylbenzene	20.0	20.6		ug/L		103	75 - 128	2	20
N-Propylbenzene	20.0	21.4		ug/L		107	76 - 126	2	20
o-Xylene	20.0	21.0		ug/L		105	78 - 122	1	20
p-Isopropyltoluene	20.0	21.1		ug/L		105	77 - 127	2	20
sec-Butylbenzene	20.0	21.1		ug/L		106	77 - 126	1	20
Styrene	20.0	21.1		ug/L		106	78 - 123	1	20
tert-Butylbenzene	20.0	20.3		ug/L		101	78 - 124	2	20
Tetrachloroethene	20.0	21.9		ug/L		109	74 - 129	2	20
Toluene	20.0	21.1		ug/L		106	80 - 121	3	20
trans-1,2-Dichloroethene	20.0	21.9		ug/L		109	75 - 124	2	20
trans-1,3-Dichloropropene	20.0	18.7		ug/L		94	73 - 127	1	20
Trichloroethene	20.0	21.3		ug/L		106	79 - 123	1	20
Trichlorofluoromethane	20.0	19.9		ug/L		99	65 - 141	2	20
Vinyl chloride	20.0	19.6		ug/L		98	58 - 137	0	20
Xylenes, Total	60.0	63.9		ug/L		107	79 - 121	1	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: LCSD 410-54427/8
Matrix: Water
Analysis Batch: 54427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	99.2		ug/L		99	54 - 146	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	92		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-52948/1-A
Matrix: Water
Analysis Batch: 53440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52948

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/12/20 19:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	109		46 - 136	10/10/20 00:26	10/12/20 19:27	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/10/20 00:26	10/12/20 19:27	1

Lab Sample ID: LCS 410-52948/2-A
Matrix: Water
Analysis Batch: 53440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.117		ug/L		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136

Lab Sample ID: LCSD 410-52948/3-A
Matrix: Water
Analysis Batch: 53440

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 52948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.128		ug/L		100	60 - 140	9	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-52948/3-A

Matrix: Water

Analysis Batch: 53440

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52948

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,1,2,2-Tetrachloroethane (1C)	112		46 - 136
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-53729/4

Matrix: Water

Analysis Batch: 53729

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/13/20 07:07	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/13/20 07:07	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/13/20 07:07	1

Lab Sample ID: LCS 410-53729/3

Matrix: Water

Analysis Batch: 53729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Bromide	7.50	7.26		mg/L		97	90 - 110
Chloride	3.00	2.93		mg/L		98	90 - 110
Sulfate	7.50	7.43		mg/L		99	90 - 110

Lab Sample ID: 410-16376-9 MS

Matrix: Water

Analysis Batch: 53729

Client Sample ID: GW231-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Bromide	2.2	J D	25.0	24.7	D	mg/L		90	90 - 110
Sulfate	38	D	25.0	64.4	D	mg/L		104	90 - 110

Lab Sample ID: 410-16376-9 DU

Matrix: Water

Analysis Batch: 53729

Client Sample ID: GW231-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromide	2.2	J D	2.17	J D	mg/L		0.7	15
Sulfate	38	D	38.5	D	mg/L		0.4	15

Lab Sample ID: MB 410-56664/4

Matrix: Water

Analysis Batch: 56664

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/21/20 14:14	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/21/20 14:14	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/21/20 14:14	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-56664/3

Matrix: Water

Analysis Batch: 56664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.50		mg/L		100	90 - 110
Chloride	3.00	3.01		mg/L		100	90 - 110
Sulfate	7.50	7.59		mg/L		101	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-53675/1-A

Matrix: Water

Analysis Batch: 54163

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53675

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 21:24	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/13/20 21:24	1

Lab Sample ID: LCS 410-53675/2-A

Matrix: Water

Analysis Batch: 54163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.403		mg/L		100	87 - 115
Manganese	0.0200	0.0224		mg/L		112	90 - 114

Lab Sample ID: MB 410-54239/1-A

Matrix: Water

Analysis Batch: 54927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54239

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 15:09	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 15:09	1

Lab Sample ID: LCS 410-54239/2-A

Matrix: Water

Analysis Batch: 54927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.430		mg/L		107	87 - 115
Manganese	0.0200	0.0213		mg/L		107	90 - 114

Lab Sample ID: MB 410-54243/1-A

Matrix: Water

Analysis Batch: 54878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54243

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 14:02	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 14:02	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-54243/2-A

Matrix: Water

Analysis Batch: 54878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54243

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.407		mg/L		101	87 - 115
Manganese	0.0200	0.0205		mg/L		103	90 - 114

Lab Sample ID: MB 410-53093/1-A

Matrix: Water

Analysis Batch: 55881

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53093

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/19/20 09:17	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/19/20 09:17	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/19/20 09:17	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/19/20 09:17	1

Lab Sample ID: LCS 410-53093/2-A

Matrix: Water

Analysis Batch: 55881

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.408		mg/L		102	87 - 113
Magnesium	0.200	0.204		mg/L		102	85 - 113
Potassium	5.60	5.43		mg/L		97	86 - 114
Sodium	2.00	2.04		mg/L		102	87 - 115

Lab Sample ID: 410-16376-19 MS

Matrix: Water

Analysis Batch: 55881

Client Sample ID: GW082-204

Prep Type: Total Recoverable

Prep Batch: 53093

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	62	J1	0.400	65.3	4	mg/L		742	87 - 113
Magnesium	8.9	J1	0.200	9.47	4	mg/L		297	85 - 113
Potassium	2.9	J1	5.60	8.54		mg/L		101	86 - 114
Sodium	27	J1	2.00	30.8	4	mg/L		168	87 - 115

Lab Sample ID: 410-16376-19 MSD

Matrix: Water

Analysis Batch: 55881

Client Sample ID: GW082-204

Prep Type: Total Recoverable

Prep Batch: 53093

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	62	J1	0.400	63.9	4	mg/L		391	87 - 113	2	20
Magnesium	8.9	J1	0.200	9.20	4	mg/L		159	85 - 113	3	20
Potassium	2.9	J1	5.60	8.54		mg/L		101	86 - 114	0	20
Sodium	27	J1	2.00	29.9	4	mg/L		122	87 - 115	3	20

Lab Sample ID: 410-16376-19 DU

Matrix: Water

Analysis Batch: 55881

Client Sample ID: GW082-204

Prep Type: Total Recoverable

Prep Batch: 53093

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	62	J1	63.7		mg/L		2	20
Magnesium	8.9	J1	9.11		mg/L		3	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-16376-19 DU

Matrix: Water

Analysis Batch: 55881

Client Sample ID: GW082-204

Prep Type: Total Recoverable

Prep Batch: 53093

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Potassium	2.9	J1	2.91		mg/L		1	20
Sodium	27	J1	28.2		mg/L		3	20

Lab Sample ID: MB 410-53748/1-A

Matrix: Water

Analysis Batch: 55263

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/16/20 10:08	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/16/20 10:08	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/16/20 10:08	1

Lab Sample ID: MB 410-53748/1-A

Matrix: Water

Analysis Batch: 55664

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/18/20 11:22	1

Lab Sample ID: LCS 410-53748/2-A

Matrix: Water

Analysis Batch: 55263

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.402		mg/L		100	87 - 113
Magnesium	0.200	0.198		mg/L		99	85 - 113
Sodium	2.00	2.13		mg/L		106	87 - 115

Lab Sample ID: LCS 410-53748/2-A

Matrix: Water

Analysis Batch: 55664

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.88		mg/L		105	86 - 114

Lab Sample ID: MB 410-53754/1-A

Matrix: Water

Analysis Batch: 54323

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53754

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/14/20 12:00	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/14/20 12:00	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/14/20 12:00	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/14/20 12:00	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-53754/2-A

Matrix: Water

Analysis Batch: 54323

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.412		mg/L		103	87 - 113
Magnesium	0.200	0.205		mg/L		102	85 - 113
Potassium	5.60	5.76		mg/L		103	86 - 114
Sodium	2.00	2.03		mg/L		101	87 - 115

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-53098/1-A

Matrix: Water

Analysis Batch: 53662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53098

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/12/20 17:20	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/12/20 17:20	1

Lab Sample ID: LCS 410-53098/2-A

Matrix: Water

Analysis Batch: 53662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0588		mg/L		98	84 - 116
Lead	0.0300	0.0304		mg/L		102	88 - 115

Lab Sample ID: MB 410-53285/1-A

Matrix: Water

Analysis Batch: 54146

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53285

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 13:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 13:55	1

Lab Sample ID: LCS 410-53285/2-A

Matrix: Water

Analysis Batch: 54146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.120	0.110		mg/L		92	84 - 116
Lead	0.0599	0.0599		mg/L		100	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-53356/34

Matrix: Water

Analysis Batch: 53356

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 23:04	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 23:04	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 23:04	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-53356/35

Matrix: Water

Analysis Batch: 53356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	170		mg/L		90	82 - 106

Lab Sample ID: 410-16376-19 MS

Matrix: Water

Analysis Batch: 53356

Client Sample ID: GW082-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	140	J1	189	238	J1	mg/L		51	82 - 106

Lab Sample ID: 410-16376-13 DU

Matrix: Water

Analysis Batch: 53356

Client Sample ID: GW208-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	97		96.8		mg/L		0.7	5
Carbonate Alkalinity as CaCO ₃	6.0	U	6.0	U	mg/L		NC	5
Total Alkalinity as CaCO ₃ to pH 4.5	97		96.8		mg/L		0.7	5

Lab Sample ID: 410-16376-19 DU

Matrix: Water

Analysis Batch: 53356

Client Sample ID: GW082-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	140		142		mg/L		0.7	5
Carbonate Alkalinity as CaCO ₃	6.0	U	6.0	U	mg/L		NC	5
Total Alkalinity as CaCO ₃ to pH 4.5	140	J1	142		mg/L		0.7	5

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-57542/132

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 13:34	1

Lab Sample ID: MB 410-57542/52

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 11:41	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: MB 410-57542/92

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 12:31	1

Lab Sample ID: LCS 410-57542/133

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.42		mg/L		97	90 - 110

Lab Sample ID: LCS 410-57542/53

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.35		mg/L		94	90 - 110

Lab Sample ID: LCS 410-57542/93

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.46		mg/L		98	90 - 110

Lab Sample ID: 410-16376-5 MS

Matrix: Water

Analysis Batch: 57542

Client Sample ID: GW083-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.090	U	1.00	0.993		mg/L		99	90 - 110

Lab Sample ID: 410-16376-14 MS

Matrix: Water

Analysis Batch: 57542

Client Sample ID: GW208-604

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.94		1.00	1.88		mg/L		94	90 - 110

Lab Sample ID: 410-16376-5 DU

Matrix: Water

Analysis Batch: 57542

Client Sample ID: GW083-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.090	U	0.090	U	mg/L		NC	10

Lab Sample ID: 410-16376-14 DU

Matrix: Water

Analysis Batch: 57542

Client Sample ID: GW208-604

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.94		0.090	U	mg/L		NC	10

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

GC/MS VOA

Analysis Batch: 54427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total/NA	Water	8260C DOD	
410-16376-2	GW030-204	Total/NA	Water	8260C DOD	
410-16376-3	GW031-204	Total/NA	Water	8260C DOD	
410-16376-4	TB204-11	Total/NA	Water	8260C DOD	
410-16376-5	GW083-204	Total/NA	Water	8260C DOD	
410-16376-6	GW204-204	Total/NA	Water	8260C DOD	
410-16376-7	GW205-204	Total/NA	Water	8260C DOD	
410-16376-8	TB204-15	Total/NA	Water	8260C DOD	
410-16376-9	GW231-204	Total/NA	Water	8260C DOD	
410-16376-10	GW232-204	Total/NA	Water	8260C DOD	
410-16376-11	GW242-418-204	Total/NA	Water	8260C DOD	
410-16376-12	TB204-12	Total/NA	Water	8260C DOD	
410-16376-13	GW208-204	Total/NA	Water	8260C DOD	
410-16376-14	GW208-604	Total/NA	Water	8260C DOD	
410-16376-15	GW209-204	Total/NA	Water	8260C DOD	
410-16376-16	TB204-14	Total/NA	Water	8260C DOD	
410-16376-17	GW021-204	Total/NA	Water	8260C DOD	
410-16376-18	GW039-204	Total/NA	Water	8260C DOD	
410-16376-19	GW082-204	Total/NA	Water	8260C DOD	
410-16376-20	TB204-13	Total/NA	Water	8260C DOD	
MB 410-54427/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-54427/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-54427/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-54427/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-54427/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 52948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-18	GW039-204	Total/NA	Water	8011	
MB 410-52948/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-52948/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-52948/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 52949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total/NA	Water	8011	
410-16376-2	GW030-204	Total/NA	Water	8011	
410-16376-3	GW031-204	Total/NA	Water	8011	
410-16376-4	TB204-11	Total/NA	Water	8011	
410-16376-5	GW083-204	Total/NA	Water	8011	
410-16376-6	GW204-204	Total/NA	Water	8011	
410-16376-7	GW205-204	Total/NA	Water	8011	
410-16376-8	TB204-15	Total/NA	Water	8011	
410-16376-9	GW231-204	Total/NA	Water	8011	
410-16376-10	GW232-204	Total/NA	Water	8011	
410-16376-11	GW242-418-204	Total/NA	Water	8011	
410-16376-12	TB204-12	Total/NA	Water	8011	
410-16376-13	GW208-204	Total/NA	Water	8011	
410-16376-14	GW208-604	Total/NA	Water	8011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

GC Semi VOA (Continued)

Prep Batch: 52949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-15	GW209-204	Total/NA	Water	8011	
410-16376-16	TB204-14	Total/NA	Water	8011	
410-16376-17	GW021-204	Total/NA	Water	8011	
410-16376-19	GW082-204	Total/NA	Water	8011	
410-16376-20	TB204-13	Total/NA	Water	8011	

Analysis Batch: 53440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-52948/1-A	Method Blank	Total/NA	Water	8011	52948
LCS 410-52948/2-A	Lab Control Sample	Total/NA	Water	8011	52948
LCSD 410-52948/3-A	Lab Control Sample Dup	Total/NA	Water	8011	52948

Analysis Batch: 53963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-18	GW039-204	Total/NA	Water	8011	52948

Analysis Batch: 54485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total/NA	Water	8011	52949
410-16376-2	GW030-204	Total/NA	Water	8011	52949
410-16376-3	GW031-204	Total/NA	Water	8011	52949
410-16376-4	TB204-11	Total/NA	Water	8011	52949
410-16376-5	GW083-204	Total/NA	Water	8011	52949
410-16376-6	GW204-204	Total/NA	Water	8011	52949
410-16376-7	GW205-204	Total/NA	Water	8011	52949
410-16376-8	TB204-15	Total/NA	Water	8011	52949
410-16376-9	GW231-204	Total/NA	Water	8011	52949
410-16376-10	GW232-204	Total/NA	Water	8011	52949
410-16376-11	GW242-418-204	Total/NA	Water	8011	52949
410-16376-12	TB204-12	Total/NA	Water	8011	52949
410-16376-13	GW208-204	Total/NA	Water	8011	52949
410-16376-14	GW208-604	Total/NA	Water	8011	52949
410-16376-15	GW209-204	Total/NA	Water	8011	52949
410-16376-16	TB204-14	Total/NA	Water	8011	52949
410-16376-17	GW021-204	Total/NA	Water	8011	52949
410-16376-19	GW082-204	Total/NA	Water	8011	52949
410-16376-20	TB204-13	Total/NA	Water	8011	52949

HPLC/IC

Analysis Batch: 53729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-1	GW029-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-2	GW030-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-2	GW030-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-3	GW031-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-3	GW031-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-5	GW083-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-6	GW204-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-6	GW204-204	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

HPLC/IC (Continued)

Analysis Batch: 53729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-7	GW205-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-7	GW205-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-9	GW231-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-10	GW232-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-10	GW232-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-11	GW242-418-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-11	GW242-418-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-13	GW208-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-13	GW208-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-14	GW208-604	Total/NA	Water	EPA 300.0 R2.1	
410-16376-14	GW208-604	Total/NA	Water	EPA 300.0 R2.1	
410-16376-15	GW209-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-17	GW021-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-18	GW039-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-18	GW039-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-19	GW082-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-19	GW082-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-53729/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-53729/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-16376-9 MS	GW231-204	Total/NA	Water	EPA 300.0 R2.1	
410-16376-9 DU	GW231-204	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 56664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-9	GW231-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56664/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56664/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 53093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total Recoverable	Water	3005A	
410-16376-3	GW031-204	Total Recoverable	Water	3005A	
410-16376-5	GW083-204	Total Recoverable	Water	3005A	
410-16376-6	GW204-204	Total Recoverable	Water	3005A	
410-16376-7	GW205-204	Total Recoverable	Water	3005A	
410-16376-9	GW231-204	Total Recoverable	Water	3005A	
410-16376-10	GW232-204	Total Recoverable	Water	3005A	
410-16376-13	GW208-204	Total Recoverable	Water	3005A	
410-16376-14	GW208-604	Total Recoverable	Water	3005A	
410-16376-15	GW209-204	Total Recoverable	Water	3005A	
410-16376-19	GW082-204	Total Recoverable	Water	3005A	
MB 410-53093/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53093/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-16376-19 MS	GW082-204	Total Recoverable	Water	3005A	
410-16376-19 MSD	GW082-204	Total Recoverable	Water	3005A	
410-16376-19 DU	GW082-204	Total Recoverable	Water	3005A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Metals

Prep Batch: 53098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-3	GW031-204	Total/NA	Water	3020A	
410-16376-5	GW083-204	Total/NA	Water	3020A	
410-16376-6	GW204-204	Total/NA	Water	3020A	
410-16376-9	GW231-204	Total/NA	Water	3020A	
410-16376-10	GW232-204	Total/NA	Water	3020A	
410-16376-13	GW208-204	Total/NA	Water	3020A	
410-16376-14	GW208-604	Total/NA	Water	3020A	
410-16376-15	GW209-204	Total/NA	Water	3020A	
410-16376-19	GW082-204	Total/NA	Water	3020A	
MB 410-53098/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53098/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 53285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total/NA	Water	3020A	
410-16376-2	GW030-204	Total/NA	Water	3020A	
410-16376-7	GW205-204	Total/NA	Water	3020A	
410-16376-11	GW242-418-204	Total/NA	Water	3020A	
410-16376-17	GW021-204	Total/NA	Water	3020A	
410-16376-18	GW039-204	Total/NA	Water	3020A	
MB 410-53285/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53285/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 53662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-3	GW031-204	Total/NA	Water	6020A	53098
410-16376-5	GW083-204	Total/NA	Water	6020A	53098
410-16376-6	GW204-204	Total/NA	Water	6020A	53098
410-16376-9	GW231-204	Total/NA	Water	6020A	53098
410-16376-10	GW232-204	Total/NA	Water	6020A	53098
410-16376-13	GW208-204	Total/NA	Water	6020A	53098
410-16376-14	GW208-604	Total/NA	Water	6020A	53098
410-16376-15	GW209-204	Total/NA	Water	6020A	53098
410-16376-19	GW082-204	Total/NA	Water	6020A	53098
MB 410-53098/1-A	Method Blank	Total/NA	Water	6020A	53098
LCS 410-53098/2-A	Lab Control Sample	Total/NA	Water	6020A	53098

Prep Batch: 53675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Dissolved	Water	Non-Digest Prep	
410-16376-2	GW030-204	Dissolved	Water	Non-Digest Prep	
410-16376-5	GW083-204	Dissolved	Water	Non-Digest Prep	
410-16376-7	GW205-204	Dissolved	Water	Non-Digest Prep	
410-16376-18	GW039-204	Dissolved	Water	Non-Digest Prep	
MB 410-53675/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-53675/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 53748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-17	GW021-204	Total Recoverable	Water	3005A	
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	3005A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Metals (Continued)

Prep Batch: 53748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 53754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-2	GW030-204	Total Recoverable	Water	3005A	
410-16376-11	GW242-418-204	Total Recoverable	Water	3005A	
410-16376-18	GW039-204	Total Recoverable	Water	3005A	
MB 410-53754/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53754/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 54146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total/NA	Water	6020A	53285
410-16376-2	GW030-204	Total/NA	Water	6020A	53285
410-16376-7	GW205-204	Total/NA	Water	6020A	53285
410-16376-11	GW242-418-204	Total/NA	Water	6020A	53285
410-16376-17	GW021-204	Total/NA	Water	6020A	53285
410-16376-18	GW039-204	Total/NA	Water	6020A	53285
MB 410-53285/1-A	Method Blank	Total/NA	Water	6020A	53285
LCS 410-53285/2-A	Lab Control Sample	Total/NA	Water	6020A	53285

Analysis Batch: 54163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Dissolved	Water	6010C	53675
410-16376-2	GW030-204	Dissolved	Water	6010C	53675
410-16376-5	GW083-204	Dissolved	Water	6010C	53675
410-16376-7	GW205-204	Dissolved	Water	6010C	53675
410-16376-18	GW039-204	Dissolved	Water	6010C	53675
MB 410-53675/1-A	Method Blank	Total/NA	Water	6010C	53675
LCS 410-53675/2-A	Lab Control Sample	Total/NA	Water	6010C	53675

Prep Batch: 54239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-13	GW208-204	Dissolved	Water	Non-Digest Prep	
410-16376-14	GW208-604	Dissolved	Water	Non-Digest Prep	
410-16376-17	GW021-204	Dissolved	Water	Non-Digest Prep	
MB 410-54239/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54239/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 54243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-3	GW031-204	Dissolved	Water	Non-Digest Prep	
410-16376-6	GW204-204	Dissolved	Water	Non-Digest Prep	
410-16376-9	GW231-204	Dissolved	Water	Non-Digest Prep	
410-16376-10	GW232-204	Dissolved	Water	Non-Digest Prep	
410-16376-11	GW242-418-204	Dissolved	Water	Non-Digest Prep	
410-16376-15	GW209-204	Dissolved	Water	Non-Digest Prep	
410-16376-19	GW082-204	Dissolved	Water	Non-Digest Prep	
MB 410-54243/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54243/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Metals

Analysis Batch: 54323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-2	GW030-204	Total Recoverable	Water	6010C	53754
410-16376-11	GW242-418-204	Total Recoverable	Water	6010C	53754
410-16376-18	GW039-204	Total Recoverable	Water	6010C	53754
MB 410-53754/1-A	Method Blank	Total Recoverable	Water	6010C	53754
LCS 410-53754/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53754

Analysis Batch: 54878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-3	GW031-204	Dissolved	Water	6010C	54243
410-16376-6	GW204-204	Dissolved	Water	6010C	54243
410-16376-9	GW231-204	Dissolved	Water	6010C	54243
410-16376-10	GW232-204	Dissolved	Water	6010C	54243
410-16376-11	GW242-418-204	Dissolved	Water	6010C	54243
410-16376-15	GW209-204	Dissolved	Water	6010C	54243
410-16376-19	GW082-204	Dissolved	Water	6010C	54243
MB 410-54243/1-A	Method Blank	Total/NA	Water	6010C	54243
LCS 410-54243/2-A	Lab Control Sample	Total/NA	Water	6010C	54243

Analysis Batch: 54927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-13	GW208-204	Dissolved	Water	6010C	54239
410-16376-14	GW208-604	Dissolved	Water	6010C	54239
410-16376-17	GW021-204	Dissolved	Water	6010C	54239
MB 410-54239/1-A	Method Blank	Total/NA	Water	6010C	54239
LCS 410-54239/2-A	Lab Control Sample	Total/NA	Water	6010C	54239

Analysis Batch: 55263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-17	GW021-204	Total Recoverable	Water	6010C	53748
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	6010C	53748
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53748

Analysis Batch: 55664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-17	GW021-204	Total Recoverable	Water	6010C	53748
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	6010C	53748
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53748

Analysis Batch: 55881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total Recoverable	Water	6010C	53093
410-16376-3	GW031-204	Total Recoverable	Water	6010C	53093
410-16376-5	GW083-204	Total Recoverable	Water	6010C	53093
410-16376-6	GW204-204	Total Recoverable	Water	6010C	53093
410-16376-7	GW205-204	Total Recoverable	Water	6010C	53093
410-16376-9	GW231-204	Total Recoverable	Water	6010C	53093
410-16376-10	GW232-204	Total Recoverable	Water	6010C	53093
410-16376-13	GW208-204	Total Recoverable	Water	6010C	53093
410-16376-14	GW208-604	Total Recoverable	Water	6010C	53093
410-16376-15	GW209-204	Total Recoverable	Water	6010C	53093
410-16376-19	GW082-204	Total Recoverable	Water	6010C	53093

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Metals (Continued)

Analysis Batch: 55881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-53093/1-A	Method Blank	Total Recoverable	Water	6010C	53093
LCS 410-53093/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53093
410-16376-19 MS	GW082-204	Total Recoverable	Water	6010C	53093
410-16376-19 MSD	GW082-204	Total Recoverable	Water	6010C	53093
410-16376-19 DU	GW082-204	Total Recoverable	Water	6010C	53093

General Chemistry

Analysis Batch: 53356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total/NA	Water	2320B-2011	
410-16376-2	GW030-204	Total/NA	Water	2320B-2011	
410-16376-3	GW031-204	Total/NA	Water	2320B-2011	
410-16376-5	GW083-204	Total/NA	Water	2320B-2011	
410-16376-6	GW204-204	Total/NA	Water	2320B-2011	
410-16376-7	GW205-204	Total/NA	Water	2320B-2011	
410-16376-9	GW231-204	Total/NA	Water	2320B-2011	
410-16376-10	GW232-204	Total/NA	Water	2320B-2011	
410-16376-11	GW242-418-204	Total/NA	Water	2320B-2011	
410-16376-13	GW208-204	Total/NA	Water	2320B-2011	
410-16376-14	GW208-604	Total/NA	Water	2320B-2011	
410-16376-15	GW209-204	Total/NA	Water	2320B-2011	
410-16376-17	GW021-204	Total/NA	Water	2320B-2011	
410-16376-18	GW039-204	Total/NA	Water	2320B-2011	
410-16376-19	GW082-204	Total/NA	Water	2320B-2011	
MB 410-53356/34	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-53356/35	Lab Control Sample	Total/NA	Water	2320B-2011	
410-16376-19 MS	GW082-204	Total/NA	Water	2320B-2011	
410-16376-13 DU	GW208-204	Total/NA	Water	2320B-2011	
410-16376-19 DU	GW082-204	Total/NA	Water	2320B-2011	

Analysis Batch: 57542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16376-1	GW029-204	Total/NA	Water	353.2	
410-16376-2	GW030-204	Total/NA	Water	353.2	
410-16376-3	GW031-204	Total/NA	Water	353.2	
410-16376-5	GW083-204	Total/NA	Water	353.2	
410-16376-6	GW204-204	Total/NA	Water	353.2	
410-16376-7	GW205-204	Total/NA	Water	353.2	
410-16376-9	GW231-204	Total/NA	Water	353.2	
410-16376-10	GW232-204	Total/NA	Water	353.2	
410-16376-11	GW242-418-204	Total/NA	Water	353.2	
410-16376-13	GW208-204	Total/NA	Water	353.2	
410-16376-14	GW208-604	Total/NA	Water	353.2	
410-16376-15	GW209-204	Total/NA	Water	353.2	
410-16376-17	GW021-204	Total/NA	Water	353.2	
410-16376-18	GW039-204	Total/NA	Water	353.2	
410-16376-19	GW082-204	Total/NA	Water	353.2	
MB 410-57542/132	Method Blank	Total/NA	Water	353.2	
MB 410-57542/52	Method Blank	Total/NA	Water	353.2	
MB 410-57542/92	Method Blank	Total/NA	Water	353.2	

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QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

General Chemistry (Continued)

Analysis Batch: 57542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-57542/133	Lab Control Sample	Total/NA	Water	353.2	
LCS 410-57542/53	Lab Control Sample	Total/NA	Water	353.2	
LCS 410-57542/93	Lab Control Sample	Total/NA	Water	353.2	
410-16376-5 MS	GW083-204	Total/NA	Water	353.2	
410-16376-14 MS	GW208-604	Total/NA	Water	353.2	
410-16376-5 DU	GW083-204	Total/NA	Water	353.2	
410-16376-14 DU	GW208-604	Total/NA	Water	353.2	

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Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW029-204

Lab Sample ID: 410-16376-1

Date Collected: 10/06/20 13:40

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 00:13	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 00:53	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 11:06	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 11:23	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53675	10/13/20 09:01	UJL8	ELLE
Dissolved	Analysis	6010C		1	54163	10/13/20 22:51	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 10:01	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:36	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 00:34	JB	ELLE
Total/NA	Analysis	353.2		2	57542	10/22/20 12:17	KGQ6	ELLE

Client Sample ID: GW030-204

Lab Sample ID: 410-16376-2

Date Collected: 10/06/20 13:10

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 00:33	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 01:10	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 11:40	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 11:57	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53675	10/13/20 09:01	UJL8	ELLE
Dissolved	Analysis	6010C		1	54163	10/13/20 23:01	UCIG	ELLE
Total Recoverable	Prep	3005A			53754	10/13/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54323	10/14/20 12:51	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:29	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 01:55	JB	ELLE
Total/NA	Analysis	353.2		2	57542	10/22/20 12:18	KGQ6	ELLE

Client Sample ID: GW031-204

Lab Sample ID: 410-16376-3

Date Collected: 10/06/20 12:30

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 00:54	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 01:27	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 12:14	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 12:31	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW031-204

Date Collected: 10/06/20 12:30

Date Received: 10/07/20 11:05

Lab Sample ID: 410-16376-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54243	10/14/20 10:28	UJL8	ELLE
Dissolved	Analysis	6010C		1	54878	10/15/20 14:49	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 10:13	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 18:16	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 01:47	JB	ELLE
Total/NA	Analysis	353.2		2	57542	10/22/20 12:20	KGQ6	ELLE

Client Sample ID: TB204-11

Date Collected: 10/06/20 14:00

Date Received: 10/07/20 11:05

Lab Sample ID: 410-16376-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/14/20 22:53	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 01:44	AC3T	ELLE

Client Sample ID: GW083-204

Date Collected: 10/06/20 09:51

Date Received: 10/07/20 11:05

Lab Sample ID: 410-16376-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 01:14	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 02:00	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 12:48	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53675	10/13/20 09:01	UJL8	ELLE
Dissolved	Analysis	6010C		1	54163	10/13/20 22:54	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 10:10	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 18:14	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 00:19	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 12:13	KGQ6	ELLE

Client Sample ID: GW204-204

Date Collected: 10/06/20 14:45

Date Received: 10/07/20 11:05

Lab Sample ID: 410-16376-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 01:34	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 02:17	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW204-204

Lab Sample ID: 410-16376-6

Date Collected: 10/06/20 14:45

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 13:56	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 14:13	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54243	10/14/20 10:28	UJL8	ELLE
Dissolved	Analysis	6010C		1	54878	10/15/20 14:43	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 09:57	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 17:54	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 01:32	JB	ELLE
Total/NA	Analysis	353.2		2	57542	10/22/20 12:21	KGQ6	ELLE

Client Sample ID: GW205-204

Lab Sample ID: 410-16376-7

Date Collected: 10/06/20 14:15

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 01:54	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 02:34	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 15:22	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 15:39	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53675	10/13/20 09:01	UJL8	ELLE
Dissolved	Analysis	6010C		1	54163	10/13/20 22:48	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 10:04	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:37	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 01:01	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 12:22	KGQ6	ELLE

Client Sample ID: TB204-15

Lab Sample ID: 410-16376-8

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 02:15	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 02:51	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW231-204

Lab Sample ID: 410-16376-9

Date Collected: 10/06/20 10:05

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 02:35	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 03:07	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 14:30	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	56664	10/21/20 21:37	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54243	10/14/20 10:28	UJL8	ELLE
Dissolved	Analysis	6010C		1	54878	10/15/20 14:40	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 10:16	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 18:18	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 00:26	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 12:26	KGQ6	ELLE

Client Sample ID: GW232-204

Lab Sample ID: 410-16376-10

Date Collected: 10/06/20 10:35

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 02:55	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 03:24	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 15:56	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 16:13	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54243	10/14/20 10:28	UJL8	ELLE
Dissolved	Analysis	6010C		1	54878	10/15/20 14:46	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 10:07	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 18:12	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 00:42	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 12:27	KGQ6	ELLE

Client Sample ID: GW242-418-204

Lab Sample ID: 410-16376-11

Date Collected: 10/06/20 11:15

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 03:15	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 04:14	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 17:04	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 17:21	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW242-418-204

Lab Sample ID: 410-16376-11

Date Collected: 10/06/20 11:15

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54243	10/14/20 10:28	UJL8	ELLE
Dissolved	Analysis	6010C		1	54878	10/15/20 14:27	UCIG	ELLE
Total Recoverable	Prep	3005A			53754	10/13/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54323	10/14/20 13:00	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:25	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 00:11	JB	ELLE
Total/NA	Analysis	353.2		5	57542	10/22/20 12:28	KGQ6	ELLE

Client Sample ID: TB204-12

Lab Sample ID: 410-16376-12

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/14/20 23:13	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 04:31	AC3T	ELLE

Client Sample ID: GW208-204

Lab Sample ID: 410-16376-13

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 03:35	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 04:48	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 17:38	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 17:55	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54239	10/14/20 10:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54927	10/15/20 16:46	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 09:45	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 17:57	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/09/20 23:55	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 12:30	KGQ6	ELLE

Client Sample ID: GW208-604

Lab Sample ID: 410-16376-14

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 03:55	ULCP	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW208-604

Lab Sample ID: 410-16376-14

Date Collected: 10/06/20 08:45

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 05:04	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 18:12	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 18:29	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54239	10/14/20 10:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54927	10/15/20 16:40	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 09:54	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 18:21	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 01:09	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 12:59	KGQ6	ELLE

Client Sample ID: GW209-204

Lab Sample ID: 410-16376-15

Date Collected: 10/06/20 09:30

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 04:16	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 05:21	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 18:46	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54243	10/14/20 10:28	UJL8	ELLE
Dissolved	Analysis	6010C		1	54878	10/15/20 14:52	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 09:42	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 17:59	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 01:17	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:03	KGQ6	ELLE

Client Sample ID: TB204-14

Lab Sample ID: 410-16376-16

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/14/20 23:33	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 05:38	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW021-204

Lab Sample ID: 410-16376-17

Date Collected: 10/06/20 11:40

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 04:36	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 05:55	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 19:20	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54239	10/14/20 10:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54927	10/15/20 16:43	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55263	10/16/20 10:36	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 11:51	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:27	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 01:39	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:04	KGQ6	ELLE

Client Sample ID: GW039-204

Lab Sample ID: 410-16376-18

Date Collected: 10/05/20 14:26

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 04:56	ULCP	ELLE
Total/NA	Prep	8011			52948	10/10/20 00:26	UKQ8	ELLE
Total/NA	Analysis	8011		1	53963	10/14/20 09:45	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 20:28	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 20:45	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53675	10/13/20 09:01	UJL8	ELLE
Dissolved	Analysis	6010C		1	54163	10/13/20 22:58	UCIG	ELLE
Total Recoverable	Prep	3005A			53754	10/13/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54323	10/14/20 12:57	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 14:30	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 01:24	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 14:35	KGQ6	ELLE

Client Sample ID: GW082-204

Lab Sample ID: 410-16376-19

Date Collected: 10/06/20 12:06

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/15/20 05:16	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 06:11	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	53729	10/13/20 21:02	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53729	10/13/20 21:19	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Client Sample ID: GW082-204

Lab Sample ID: 410-16376-19

Date Collected: 10/06/20 12:06

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54243	10/14/20 10:28	UJL8	ELLE
Dissolved	Analysis	6010C		1	54878	10/15/20 14:31	UCIG	ELLE
Total Recoverable	Prep	3005A			53093	10/12/20 02:44	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55881	10/19/20 09:23	UPJE	ELLE
Total/NA	Prep	3020A			53098	10/12/20 03:26	UJL8	ELLE
Total/NA	Analysis	6020A		1	53662	10/12/20 18:23	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/09/20 23:32	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:07	KGQ6	ELLE

Client Sample ID: TB204-13

Lab Sample ID: 410-16376-20

Date Collected: 10/06/20 14:00

Matrix: Water

Date Received: 10/07/20 11:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	54427	10/14/20 23:53	ULCP	ELLE
Total/NA	Prep	8011			52949	10/10/20 00:55	UKQ8	ELLE
Total/NA	Analysis	8011		1	54485	10/15/20 06:28	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-16376-1	GW029-204	Water	10/06/20 13:40	10/07/20 11:05	
410-16376-2	GW030-204	Water	10/06/20 13:10	10/07/20 11:05	
410-16376-3	GW031-204	Water	10/06/20 12:30	10/07/20 11:05	
410-16376-4	TB204-11	Water	10/06/20 14:00	10/07/20 11:05	
410-16376-5	GW083-204	Water	10/06/20 09:51	10/07/20 11:05	
410-16376-6	GW204-204	Water	10/06/20 14:45	10/07/20 11:05	
410-16376-7	GW205-204	Water	10/06/20 14:15	10/07/20 11:05	
410-16376-8	TB204-15	Water	10/06/20 14:00	10/07/20 11:05	
410-16376-9	GW231-204	Water	10/06/20 10:05	10/07/20 11:05	
410-16376-10	GW232-204	Water	10/06/20 10:35	10/07/20 11:05	
410-16376-11	GW242-418-204	Water	10/06/20 11:15	10/07/20 11:05	
410-16376-12	TB204-12	Water	10/06/20 14:00	10/07/20 11:05	
410-16376-13	GW208-204	Water	10/06/20 08:45	10/07/20 11:05	
410-16376-14	GW208-604	Water	10/06/20 08:45	10/07/20 11:05	
410-16376-15	GW209-204	Water	10/06/20 09:30	10/07/20 11:05	
410-16376-16	TB204-14	Water	10/06/20 14:00	10/07/20 11:05	
410-16376-17	GW021-204	Water	10/06/20 11:40	10/07/20 11:05	
410-16376-18	GW039-204	Water	10/05/20 14:26	10/07/20 11:05	
410-16376-19	GW082-204	Water	10/06/20 12:06	10/07/20 11:05	
410-16376-20	TB204-13	Water	10/06/20 14:00	10/07/20 11:05	

Eurofins Lancaster Laboratories Env, LLC

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-030-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cu, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity, and Bicarbonate (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW030-204	10-06-2020	1310	10	3	—	2	1	1*	1	1	1	1			
2																
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begay</i> RELINQUISHED BY: <i>G. Begay</i> DATE: 10-06-2020 TIME: 1715 PRINTED NAME AND SIGNATURE: <i>G. Begay</i> COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5747 RECEIVED BY: <i>Chad Wettrig</i> DATE: 10/7/20 TIME: 11:05 PRINTED NAME AND SIGNATURE: <i>Chad Wettrig</i> PRINTED NAME AND SIGNATURE: <i>Chad Wettrig</i>																

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-031-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR: **2020**
QUARTER: **4 (Oct-Dec)**

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: **21295**

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW031-204	10-06-2020	1230	10	3	-	-	2	1	1*	1	1	1				
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **G. Begaye**

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5747**

TB204-11

RELINQUISHED BY: **G. Begaye** DATE: **10-06-2020** TIME: **1715**

RECEIVED BY: **Chad Wetzig** DATE: **10/7/20** TIME: **11:05**

QPM

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-11									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599BMO+JL 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14660 JL 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (9011)	Total As, Pb, Cu, K, Ni, Mg (6020A, 6010C)	Disclosed Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-11	10/6/2020	1400	4	2	—	2								
2															
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Associated with: GW029-204 GW030-204 GW031-204															
SAMPLER(S): J Livingston								COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5747							
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature:						Printed Name and Signature:									
J Livingston				10/6/2020	1715										
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
						Chad Lettig CM Wells				10/7/20	11:05				

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225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD				COC NUMBER											
COC-083-204																	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA											
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
		ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Disolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3003)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	(RSK-175)	COMMENTS
1	GW083-204	10-6-2020	0951	10	3	—	2	1	1*	1	1	1	1				
2																	
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4																	
5																	
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk <i>[Signature]</i> 10-6-2020 1715 COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5769 RECEIVED BY: Wesley Miller <i>[Signature]</i> 10/2/2020 [ms]																	
Printed Name and Signature: _____ DATE: _____ TIME: _____																	
Printed Name and Signature: _____ DATE: _____ TIME: _____																	
Printed Name and Signature: _____ DATE: _____ TIME: _____																	

[Handwritten initials]

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-204-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tera Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	ED8	(8260C)	BTEX	(8260C)	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity	Carbon Dioxide	Comments	
1	GW204-204	10-06-2020	1445	10	3	—	2	1	1*	1	1	1	1	1	1		
2																	
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): <i>G. Begaye</i> RELINQUISHED BY: <i>Gabeon Begaye</i> Printed Name and Signature: <i>Gabeon Begaye</i> Printed Name and Signature: <i>Gabeon Begaye</i> Printed Name and Signature: <i>Gabeon Begaye</i> COURIER AND SHIPPING NUMBER: <i>FedEx 8155 2826 5769</i> RECEIVED BY: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> DATE: <i>10/06/2020</i> TIME: <i>1715</i> DATE: <i>10/06/2020</i> TIME: <i>1715</i> DATE: <i>10/06/2020</i> TIME: <i>1715</i> TB204- <i>15</i> DATE: <i>10/06/2020</i> TIME: <i>1715</i> DATE: <i>10/06/2020</i> TIME: <i>1715</i> DATE: <i>10/06/2020</i> TIME: <i>1715</i>																	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 711-1025

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

PROJECT SITE AND PHASE:
ST106/SS111

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

Lab PO Number: 21295

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-205-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM23208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)		
1	GW205-204	10-06-2020	1415	10	3			2	1	1*	1	1	1					
2																		
3																		
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): G. Begay

RELINQUISHED BY:  DATE: 10-06-2020 TIME: 1715

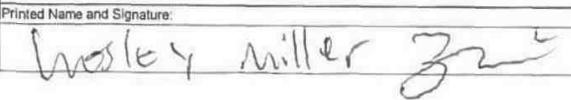
Printed Name and Signature: **Galveston Begay Labbe**

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5769

RECEIVED BY:  DATE: 10/7/2020 TIME: 1415

Printed Name and Signature: **Wesley Miller**

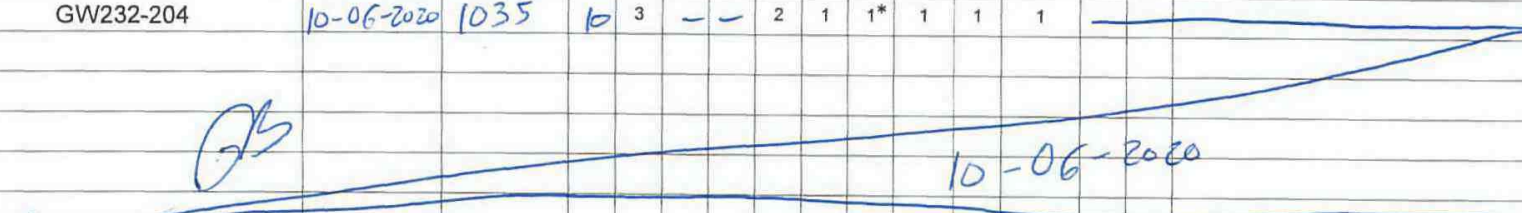
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EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC TB204-15	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01 JL 8360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 44800 JL 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	(8250C) VOCs	(8250C) BTEX	(8250C) BTEXN	(8250C) EDB	Total As, Pb, Cd, Cr, Ni, Hg (8011)	Disinfectant Fe, Mn (6020A5010C)	Chloride, bromide, sulfate (3001)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-15	10/6/2020	1400	4	2	—	—	2	—	—	—	—	—		
2															
3															
4															
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Associated with: GW083-204 GW204-204 GW205-204 GW206-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5769											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/6/2020	1715	Printed Name and Signature: Wesley Miller				10/7/2020					
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-231-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lemond: tlemond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5412/208)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW231-204	10-06-2020	1005	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begay</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5714											
RELINQUISHED BY: _____ DATE _____ TIME _____				RECEIVED BY: _____ DATE _____ TIME _____											
Printed Name and Signature: <i>Galveston Begay</i> <i>10-06-2020 1715</i>				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: <i>Chad Wetzig</i> <i>10/2/20 11:10</i>											

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-232-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KeyHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6020A/6010C)	Discolored Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	COMMENTS	
1	GW232-204	10-06-2020	1035	10	3	-	-	2	1	1*	1	1			
2															
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6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Beyage</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5714											
RELINQUISHED BY: _____ DATE _____ TIME _____				RECEIVED BY: _____ DATE _____ TIME _____											
Printed Name and Signature: <i>Gabe Beyage</i> <i>[Signature]</i> 10-06-2020 1715				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: <i>Chad Wettig CM Wed</i> 10/7/20 11:10											

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-242-418-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

YEAR:
2020

QUARTER:
4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)			
1	GW242-418-204	10-06-2020	1115	10	3	—	—	2	1	1*	1	1	1					
2																		
3																		
4																		
5																		
6																		

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G-Beyze*

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5714**

TB204- **12**

RELINQUISHED BY: *Gabeon Beyze* DATE: **10-06-2020** TIME: **1715**

RECEIVED BY: *Chad Wetzig* DATE: **10/7/20** TIME: **11:10**

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-12	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01-JL 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21275		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total As, Pb, Cd, Ni, Mn (6020A6010C)	Disolved Fe, Mn (6020A6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (300.0)	(353.2)	(SM232B) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS
1	TB204-12	10/6/2020	1400	4	2	—	2								
2															
3															
4															
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Associated with: GW 231-204 GW 232-204 GW 242-418-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5714											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/6/2020	1715	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Chad Wettig CM W				10/7/20	11:10				

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-208-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW208-204	10-06-2020	0845	10	3	—	—	2	1	1*	1	1	1			
2	GW208-604	10-06-2020	0845	10	3	—	—	2	1	1*	1	1	1			
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
TB204-14																
SAMPLER(S): <i>B. Begay</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5736												
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME					
Printed Name and Signature: <i>Catherine Begay</i>				10-06-2020	1715	Printed Name and Signature: <i>Wesley Miller</i>										
Printed Name and Signature:						Printed Name and Signature:										
Printed Name and Signature:						Printed Name and Signature:										

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-209-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)						
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258										
				ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED9 (8260C)	ED9 (8260C)	ED9 (8260C)	Total (As Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)	COMMENTS
1	GW209-204	10-06-2020	0930	10	3	-	-	2	1	1*	1	1	1	1				
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
SAMPLER(S): G. Begaye										COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5736								
RELINQUISHED BY: G. Begaye										RECEIVED BY: [Signature]								
DATE: 10-06-2020										TIME: 1715								
Printed Name and Signature: G. Begaye										Printed Name and Signature: [Signature]								
Printed Name and Signature: [Signature]										Printed Name and Signature: [Signature]								
Printed Name and Signature: [Signature]										Printed Name and Signature: [Signature]								
Printed Name and Signature: [Signature]										Printed Name and Signature: [Signature]								

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01 JL 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				COC NUMBER: COC-TB204-14			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 14800-JL 21295		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020 QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(B260C) BTEXN	(B260C) EDB	(B011) Total As, Pb, Cd, K, Na, Mg	(B010C) Dissolved Fe, Mn	(B020A/B010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(353.2) Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS		
1	TB204-14	10/6/2020	1400	4	2	—	2	—	—	—	—	—	JAL		
2															
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Associated with: GW 208-204 GW 208-604 GW 209-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5736											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/6/2020	1715	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Wesley Miller				10/7/20	1700				

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-021-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW021-204	10-06-2020	1140	10	3	—	—	2	1	1*	1	1	1				
2																	
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Beyage*

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5725**

TB204- **13**

RELINQUISHED BY:

DATE

TIME

Printed Name and Signature:

Gabe Jon Beyage

Fuller

10-06-2020

1715

RECEIVED BY:

DATE

TIME

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Wesley Miller

John

10/6/20

1105

QEW

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1826		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-039-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cu, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5023208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW039-204	10-5-2020	1426	10	3	—	2	1	1*	1	1	1	1	1	1	
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-710 D. Schueelk RELINQUISHED BY: D. Schueelk [Signature] DATE: 10-6-2020 TIME: 1715 COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5725 RECEIVED BY: [Signature] DATE: 10/7/2020 TIME: 1105 Wusley Miller [Signature]																

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER

COC-082-204

PROJECT NAME:
Kirtland AFB Bulk Fuels
Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ANALYSIS REQUIRED (Specify number of bottles)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW082-204	10-6-2020	1206	10	3	—	—	2	1	1*	1	1	1	—	—	
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
Pump SN# 1807B-710
D. Schuelek

RELINQUISHED BY:
D. Schuelek

COURIER AND SHIPPING NUMBER:
FedEx 8155 2824 5725

RECEIVED BY:
Wesley Miller

DATE
10-6-2020

TIME
1715

DATE
10/6/2020

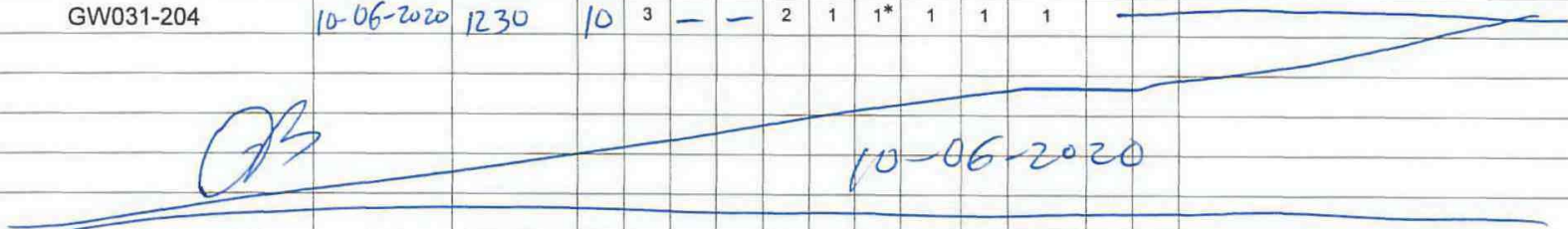
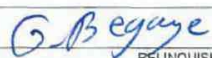
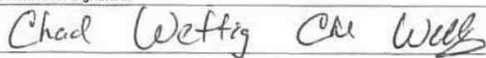
TIME
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EA® 225 Schuling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1825										CHAIN-OF-CUSTODY RECORD										COC NUMBER COC TB204 13	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility				PROJECT NUMBER: 62599BMO1 JL 6360401				LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7259				QUARTER: 4					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS							
				Total Number of Bottles	VOCs	(8260C) BTEX	(8260C) BTEXN	(8260C) EDB	Total As, Pb, Cd, Cu, Ni, Mn (6010C)	Dissolved Fe, Mn (6020A6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)								
1	TB204-13	10/6/2020	1400	4	2	—	2														
2																					
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Associated with: GW021-204 GW039-204 GW082-204																					
SAMPLER(S): J Livingston								COURIER AND SHIPPING NUMBER: FedEx 8155 2828 5725													
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME							
Printed Name and Signature: J Livingston				10/6/2020		1715		Printed Name and Signature:													
Printed Name and Signature:								Printed Name and Signature:													
Printed Name and Signature:								Printed Name and Signature: Wesley Miller				10/7/2020		11:57							

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-030-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity, and Bicarbonate (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW030-204	10-06-2020	1310	10	3	—	2	1	1*	1	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begay</i> RELINQUISHED BY: <i>G. Begay</i> DATE: 10-06-2020 TIME: 1715 PRINTED NAME AND SIGNATURE: <i>G. Begay</i> COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5747 RECEIVED BY: <i>Chad Wettrig</i> DATE: 10/7/20 TIME: 11:05 PRINTED NAME AND SIGNATURE: <i>Chad Wettrig</i> PRINTED NAME AND SIGNATURE: <i>Chad Wettrig</i>																

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-031-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)		
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Comments
1	GW031-204	10-06-2020	1230	10	3	—	—	2	1	1*	1	1		
2														
3														
4														
5														
6														
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered														
SAMPLER(S): 										COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5747				
RELINQUISHED BY: _____ DATE _____ TIME _____										RECEIVED BY: _____ DATE _____ TIME _____				
Printed Name and Signature: 										Printed Name and Signature: _____				
Printed Name and Signature: _____										Printed Name and Signature: _____				
Printed Name and Signature: _____										Printed Name and Signature: 				



EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-11	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599BMO+JL 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 14600 JL 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (9011)	Total As, Pb, Cu, K, Ni, Mg (6020A, 6010C)	Disclosed Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-11	10/6/2020	1400	4	2	—	2								
2															
3															
4															
5															
Associated with: GW029-204 GW030-204 GW031-204															
SAMPLER(S): J Livingston								COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5747							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston				10/6/2020		1715		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Chad Lettig CM Wells				10/7/20		11:05	

JEM

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-083-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)								
				ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Disolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3000)	(3532) Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	(RSK-175)	COMMENTS	
1	GW083-204	10-6-2020	0951	10	3	—		2	1	1*	1	1	1					
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk <i>[Signature]</i> 10-6-2020 1715 DATE: 10-6-2020 TIME: 1715 COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5769 RECEIVED BY: Wesley Miller <i>[Signature]</i> 10/2/2020 1415 DATE: 10/2/2020 TIME: 1415																		

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-204-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tera Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258											
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	ED8	(8260C)	BTEX	(8260C)	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity	Carbon Dioxide	Comments	
1	GW204-204	10-06-2020	1445	10	3	—	2	1	1*	1	1	1	1	1	1		
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): <i>G. Begaye</i> RELINQUISHED BY: <i>Gabeon Begaye</i> Printed Name and Signature: <i>Gabeon Begaye</i> Printed Name and Signature: <i>Gabeon Begaye</i> Printed Name and Signature: <i>Gabeon Begaye</i> COURIER AND SHIPPING NUMBER: <i>FedEx 8155 2826 5769</i> RECEIVED BY: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> DATE: <i>10/06/2020</i> TIME: <i>1715</i> DATE: <i>10/27/2020</i> TIME: <i>1445</i>																	

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-205-204							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)											
				ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS					
1	GW205-204	10-06-2020	1415	10	3			2	1	1*	1	1	1								
2																					
3																					
4																					
5																					
6																					
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																					
SAMPLER(S): <i>G. Begay</i> RELINQUISHED BY: <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>10-06-2020</td> <td>1715</td> </tr> </tbody> </table> Printed Name and Signature: <i>Galveston Begay</i>																		DATE	TIME	10-06-2020	1715
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10-06-2020	1715																				
COURIER AND SHIPPING NUMBER: <i>FedEx 8155 2826 5769</i> RECEIVED BY: <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> Printed Name and Signature:																		DATE	TIME		
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Printed Name and Signature: <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> Printed Name and Signature:																		DATE	TIME		
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Printed Name and Signature: <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> Printed Name and Signature:																		DATE	TIME		
DATE	TIME																				
Printed Name and Signature: <i>Wesley Miller</i> <table border="1"> <thead> <tr> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>10/7/20</td> <td>1415</td> </tr> </tbody> </table>																		DATE	TIME	10/7/20	1415
DATE	TIME																				
10/7/20	1415																				

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC TB204-15	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01 JL 8360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 44800 JL 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	(8260C) VOCs	(8260C) BTEX	(8260C) BTEXN	EDB	Total As, Pb, Cd, Cr, Ni, Hg (8011)	Disinfectant Fe, Mn (6020A5010C)	Chloride, bromide, sulfate (3001)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-15	10/6/2020	1400	4	2	—	—	2	—	—	—	—	—		
2															
3															
4															
5															
Associated with: GW083-204 GW204-204 GW205-204 GW206-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5769											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/6/2020	1715	Printed Name and Signature: Wesley Miller				10/7/2020					
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-231-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lemond: tlemond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5422208)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW231-204	10-06-2020	1005	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begay</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5714											
RELINQUISHED BY: _____ DATE: _____ TIME: _____				RECEIVED BY: _____ DATE: _____ TIME: _____											
Printed Name and Signature: <i>Galveston Begay</i> <i>10-06-2020 1715</i>				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: <i>Chad Wetzig</i> <i>10/2/20 11:10</i>											

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-232-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KeyHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Na, Mg) (6020A/6010C)	Disinfectant Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	Comments	
1	GW232-204	10-06-2020	1035	10	3	-	-	2	1	1*	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Beyage</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5714											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Gabe Beyage</i>				10-06-2020		1715		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: <i>Chad Wettig</i>				10/7/20		11:10	

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-242-418-204										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA										
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4 (Oct-Dec)										
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	(8260C) BTEX	(8260C) BTEX	ED8 (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW242-418-204	10-06-2020	1115	10	3	—	—	2	1	1*	1	1	1			 10-06-2020
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Beyne</i> RELINQUISHED BY: <i>Gabeon Beyne</i> <i>[Signature]</i> COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5714 RECEIVED BY: <i>[Signature]</i> DATE: 10-06-2020 TIME: 1715 DATE: 10/7/20 TIME: 11:10																

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-12		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599DM01-JL 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21275		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total As, Pb, Cd, Ni, Mn (6020A6010C)	Dissolved Fe, Mn (6020A6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (300.0)	(353.2)	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS
1	TB204-12	10/6/2020	1400	4	2	—	2	—	—	—	—	—	—	—	—	Associated with: GW 231-204 GW 232-204 GW 242-418-204
2																
3																
4																
5																
SAMPLER(S): J Livingston RELINQUISHED BY: DATE: TIME: Printed Name and Signature: J Livingston 10/6/2020 1715 Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: _____																
COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5714 RECEIVED BY: DATE: TIME: Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: _____																
Chad Wettig CM Wally 10/7/20 11:10																

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-208-204

YEAR: 2020

QUARTER: 4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
					VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3000)	(353.2) Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B) Carbon Dioxide	(RSK-175) Methane	(RSK-175)	
1	GW208-204	10-06-2020	0845	10	3	-	-	2	1	1*	1	1	1				
2	GW208-604	10-06-2020	0845	10	3	-	-	2	1	1*	1	1	1				
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **B. Begay**

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5736**

RELINQUISHED BY: **B. Begay**

DATE: **10-06-2020**

TIME: **1715**

RECEIVED BY: **Wesley Miller**

DATE: **10/12/2020**

TIME: **1048**

gem

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

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March 2021

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- 11
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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

PROJECT SITE AND PHASE:
ST106/SS111

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

Lab PO Number: 21295

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-209-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED9 (8011)	Total (As Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)	
1	GW209-204	10-06-2020	0930	10	3	-	-	2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Begaye*

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5736**

RELINQUISHED BY: *G. Begaye* DATE: 10-06-2020 TIME: 1715

RECEIVED BY: *Wesley Miller* DATE: 10/12/2020 TIME: 1408

Printed Name and Signature: *G. Begaye*

Printed Name and Signature: *Wesley Miller*

Printed Name and Signature: *G. Begaye*

Printed Name and Signature: *Wesley Miller*

Printed Name and Signature: *G. Begaye*

Printed Name and Signature: *Wesley Miller*

Printed Name and Signature: *G. Begaye*

Printed Name and Signature: *Wesley Miller*

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-021-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)					
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
				ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW021-204	10-06-2020	1140	10	3	—	—	2	1	1*	1	1	1				
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4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): G. Beyage				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5725													
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		TB204- 13	
Printed Name and Signature: Gabejon Beyage				10-06-2020		1715		Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature: Wesley Miller				10/6/20		1105			

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1826		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-039-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)							
				ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5023208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS	
1	GW039-204	10-5-2020	1426	10	3	—	2	1	1*	1	1	1	1	1	1		
2																	
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
Pump SN: 1807B-710 D. Schueelk RELINQUISHED BY: D. Schueelk [Signature] DATE: 10-6-2020 TIME: 1715 COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5725 RECEIVED BY: [Signature] DATE: 10/7/2020 TIME: 1105 Wusley Miller [Signature] 10/7/2020 1105																	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-082-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

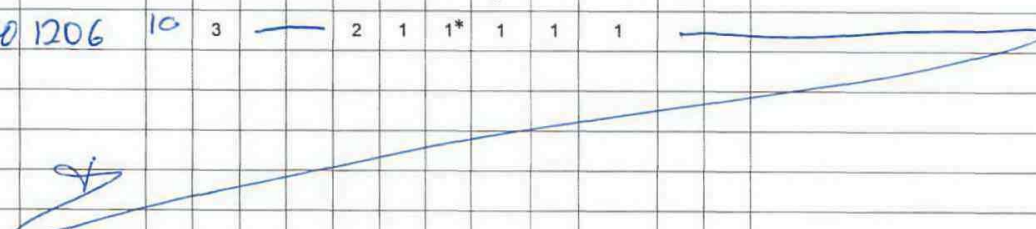
LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW082-204	10-6-2020	1206	10	3	—	2	1	1*	1	1	1	—			
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6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

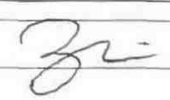
SAMPLER(S):
Pump SN: 1807B-710
D. Schuelek

RELINQUISHED BY:
D. Schuelek 

DATE: 10-6-2020

TIME: 1715

COURIER AND SHIPPING NUMBER:
FedEx 8155 2826 5725

RECEIVED BY:
Wesley Miller 

DATE: 10/27/2020

TIME: 1105

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EA		225 Schuling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC TB204 13	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62599BMO1 JL 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7259				QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(8260C) BTEX	(8260C) BTEXN	EDB (8011)	Total As, Pb, Cd, Cu, Ni, Mn (6020A6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (30010)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS	
1	TB204-13	10/6/2020	1400	4	2	—	—	2	—	—	—	—	—	<i>Handwritten: JRL</i>	
2															
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Associated with: GW021-204 GW039-204 GW082-204															
SAMPLER(S): <i>J Livingston</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2828 5725											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: <i>J Livingston</i>				10/6/2020	1715	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: <i>Wesley Miller</i>				10/7/2020	1105				

Handwritten: JRL

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-16376-1

Login Number: 16376**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-16534-1

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 1

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
12/18/2020 10:48:10 AM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Darlene Bandy
Project Manager I
12/18/2020 10:48:10 AM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Job ID: 410-16534-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-16534-1

Revision

The report (revision 1) is being revised due to: The limits for the MS/MSD for Lead 6020A were corrected from 88-118% to 88-115% per the QSM.

Receipt

The samples were received on 10/8/2020 10:49 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.5° C, 0.6° C, 0.7° C, 0.7° C, 0.8° C, 1.1° C and 1.3° C.

GC/MS VOA

Method 8260C DOD: The response for Vinyl chloride, Hexachlorobutadiene, Chloroethane and Chloromethane in the continuing calibration verification (CCV) marginally exceeds the DoD acceptance criteria on batch 410-55462. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): GW221-204 (410-16534-7). The sample container was received with headspace.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW095-204 (410-16534-15), GW217-204 (410-16534-21), GW218-204 (410-16534-22), GW226-204 (410-16534-23) and TB204-18 (410-16534-24). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-56668 recovered outside acceptance criteria, low biased, for Acetone and Tetrachloroethene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C DOD: The continuing calibration verification (CCV) analyzed on analytical batch 410-56668 is compliant under 8260C/D method criteria for 2-Butanone. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010C: The laboratory control sample (LCS) for preparation batch 410-53442 and analytical batch 410-53797 recovered outside control limits for the following analytes: Manganese. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Job ID: 410-16534-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW225-204

Lab Sample ID: 410-16534-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.017	J M	0.029	0.019	0.0096	ug/L	1			8011	Total/NA
Chloride	44	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	79	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	56	J1	0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	7.8	J1	0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	26	J1	1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW225-604

Lab Sample ID: 410-16534-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.021	J M	0.029	0.020	0.0098	ug/L	1			8011	Total/NA
Chloride	40	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	80	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	62		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	8.7		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	28		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Lead	0.000089	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.2		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW227-204

Lab Sample ID: 410-16534-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	18	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	41	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	40		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	5.6		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	24		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.21		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-19

Lab Sample ID: 410-16534-4

No Detections.

Client Sample ID: GW219-204

Lab Sample ID: 410-16534-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	42	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	46		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.6		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.3		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.0049	J	0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.93		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW220-204

Lab Sample ID: 410-16534-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12	J1 D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	29	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	36		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.8		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	19		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00070	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.11		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW221-204

Lab Sample ID: 410-16534-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	28	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	35		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.5		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Lead	0.00025	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW221-204 (Continued)

Lab Sample ID: 410-16534-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-20

Lab Sample ID: 410-16534-8

No Detections.

Client Sample ID: GW201-204

Lab Sample ID: 410-16534-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.3	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Chloride	48	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	84	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	64		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	8.8		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	30		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.8		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW202-204

Lab Sample ID: 410-16534-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Chloride	21	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	38	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	42		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	5.7		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	30		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00082	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.51		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW203-204

Lab Sample ID: 410-16534-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	30	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	37		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.9		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW203-204 (Continued)

Lab Sample ID: 410-16534-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2.2		0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00086	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Recoverable Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.044	J J1	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-16

Lab Sample ID: 410-16534-12

No Detections.

Client Sample ID: GW216-204

Lab Sample ID: 410-16534-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.77	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Chloride	26	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	30	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	40		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	5.5		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.2		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	20		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Recoverable Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110	J1	8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.42		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-17

Lab Sample ID: 410-16534-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA

Client Sample ID: GW095-204

Lab Sample ID: 410-16534-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Toluene	0.61	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	59	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	37	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	57		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	8.5		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	27		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Manganese	0.026	J1	0.010	0.0052	0.0031	mg/L	1		6010C	Recoverable Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW095-204 (Continued)

Lab Sample ID: 410-16534-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.25		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-22

Lab Sample ID: 410-16534-16

No Detections.

Client Sample ID: GW084-204

Lab Sample ID: 410-16534-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.69	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	8.4	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	32		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.5		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW096-204

Lab Sample ID: 410-16534-18

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.80	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	7.7	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	31		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.5		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.0		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00021	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW096-604

Lab Sample ID: 410-16534-19

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.83	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	7.8	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	26	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW096-604 (Continued)

Lab Sample ID: 410-16534-19

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Calcium	30		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.4		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.0		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	20		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00021	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-21

Lab Sample ID: 410-16534-20

No Detections.

Client Sample ID: GW217-204

Lab Sample ID: 410-16534-21

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	61	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	37	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	54		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.0		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW218-204

Lab Sample ID: 410-16534-22

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	8.7	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	26	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	35	B	0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.3	B	0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00079	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW218-204 (Continued)

Lab Sample ID: 410-16534-22

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	0.047	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW226-204

Lab Sample ID: 410-16534-23

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	16	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	37	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	42	B	0.20	0.15	0.096	mg/L	1		6010C	Total
										Recoverable
Magnesium	5.9	B	0.10	0.075	0.040	mg/L	1		6010C	Total
										Recoverable
Potassium	2.3		0.50	0.38	0.20	mg/L	1		6010C	Total
										Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total
										Recoverable
Arsenic	0.00069	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.089	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-18

Lab Sample ID: 410-16534-24

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW225-204

Lab Sample ID: 410-16534-1

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:02	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 16:02	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:02	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:02	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:02	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:02	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:02	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 16:02	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 16:02	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 16:02	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 16:02	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 16:02	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 16:02	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 16:02	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:02	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 16:02	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 16:02	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW225-204

Lab Sample ID: 410-16534-1

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:02	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:02	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:02	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 16:02	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:02	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:02	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 16:02	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:02	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		81 - 118		10/17/20 16:02	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 16:02	1
Dibromofluoromethane (Surr)	101		80 - 119		10/17/20 16:02	1
Toluene-d8 (Surr)	102		89 - 112		10/17/20 16:02	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.017	J M	0.029	0.019	0.0096	ug/L		10/20/20 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136	10/17/20 01:12	10/20/20 00:57	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/17/20 01:12	10/20/20 00:57	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 10:09	5
Chloride	44	D	20	15	10	mg/L		10/15/20 10:27	50
Sulfate	79	D	50	45	15	mg/L		10/15/20 10:27	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	56	J1	0.20	0.15	0.096	mg/L		10/12/20 15:07	1
Magnesium	7.8	J1	0.10	0.075	0.040	mg/L		10/12/20 15:07	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/12/20 15:07	1
Sodium	26	J1	1.0	0.50	0.24	mg/L		10/12/20 15:07	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 21:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW225-204

Lab Sample ID: 410-16534-1

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 21:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 15:30	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 15:30	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/10/20 05:08	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 05:08	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/10/20 05:08	1
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L		10/25/20 14:41	1

Client Sample ID: GW225-604

Lab Sample ID: 410-16534-2

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:24	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 16:24	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:24	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:24	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:24	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:24	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:24	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 16:24	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 16:24	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 16:24	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 16:24	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 16:24	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 16:24	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW225-604

Lab Sample ID: 410-16534-2

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 16:24	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:24	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 16:24	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 16:24	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:24	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:24	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:24	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 16:24	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:24	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:24	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 16:24	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:24	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		81 - 118		10/17/20 16:24	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 16:24	1
Dibromofluoromethane (Surr)	101		80 - 119		10/17/20 16:24	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 16:24	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.021	J M	0.029	0.020	0.0098	ug/L		10/20/20 01:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW225-604

Lab Sample ID: 410-16534-2

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	122		46 - 136	10/17/20 01:12	10/20/20 01:14	1
1,1,2,2-Tetrachloroethane (2C)	107		46 - 136	10/17/20 01:12	10/20/20 01:14	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 10:45	5
Chloride	40	D	20	15	10	mg/L		10/15/20 11:03	50
Sulfate	80	D	50	45	15	mg/L		10/15/20 11:03	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	62		0.20	0.15	0.096	mg/L		10/18/20 12:10	1
Magnesium	8.7		0.10	0.075	0.040	mg/L		10/18/20 12:10	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/18/20 12:10	1
Sodium	28		1.0	0.50	0.24	mg/L		10/18/20 12:10	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 22:34	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 22:34	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 15:32	1
Lead	0.000089	J	0.00050	0.00025	0.000071	mg/L		10/13/20 15:32	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/10/20 04:52	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 04:52	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/10/20 04:52	1
Nitrate Nitrite as N	1.2		0.10	0.090	0.040	mg/L		10/25/20 14:42	1

Client Sample ID: GW227-204

Lab Sample ID: 410-16534-3

Date Collected: 10/07/20 15:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:46	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 16:46	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:46	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:46	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW227-204

Lab Sample ID: 410-16534-3

Date Collected: 10/07/20 15:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/17/20 16:46	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:46	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:46	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 16:46	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 16:46	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 16:46	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 16:46	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 16:46	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 16:46	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 16:46	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:46	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Chloroform	0.50	U M	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 16:46	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 16:46	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:46	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 16:46	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 16:46	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 16:46	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 16:46	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 16:46	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW227-204

Lab Sample ID: 410-16534-3

Date Collected: 10/07/20 15:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 16:46	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 16:46	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		81 - 118		10/17/20 16:46	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 16:46	1
Dibromofluoromethane (Surr)	101		80 - 119		10/17/20 16:46	1
Toluene-d8 (Surr)	102		89 - 112		10/17/20 16:46	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	106		46 - 136	10/17/20 01:12	10/20/20 01:30	1
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136	10/17/20 01:12	10/20/20 01:30	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 11:21	5
Chloride	18	D	2.0	1.5	1.0	mg/L		10/15/20 11:21	5
Sulfate	41	D	5.0	4.5	1.5	mg/L		10/15/20 11:21	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	40		0.20	0.15	0.096	mg/L		10/18/20 12:13	1
Magnesium	5.6		0.10	0.075	0.040	mg/L		10/18/20 12:13	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/18/20 12:13	1
Sodium	24		1.0	0.50	0.24	mg/L		10/18/20 12:13	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 22:31	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 22:31	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 15:34	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 15:34	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/10/20 05:00	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 05:00	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/10/20 05:00	1
Nitrate Nitrite as N	0.21		0.10	0.090	0.040	mg/L		10/25/20 14:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-19

Lab Sample ID: 410-16534-4

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 11:39	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 11:39	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 11:39	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 11:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 11:39	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 11:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 11:39	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 11:39	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 11:39	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 11:39	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 11:39	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 11:39	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 11:39	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 11:39	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 11:39	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 11:39	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 11:39	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 11:39	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-19

Lab Sample ID: 410-16534-4

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 11:39	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 11:39	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 11:39	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 11:39	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 11:39	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 11:39	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 11:39	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 11:39	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		81 - 118		10/17/20 11:39	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 11:39	1
Dibromofluoromethane (Surr)	100		80 - 119		10/17/20 11:39	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 11:39	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/20/20 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	98		46 - 136	10/17/20 01:12	10/20/20 01:47	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/17/20 01:12	10/20/20 01:47	1

Client Sample ID: GW219-204

Lab Sample ID: 410-16534-5

Date Collected: 10/07/20 10:05

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:08	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 17:08	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW219-204

Lab Sample ID: 410-16534-5

Date Collected: 10/07/20 10:05

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 17:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:08	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:08	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:08	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 17:08	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 17:08	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 17:08	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 17:08	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 17:08	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 17:08	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 17:08	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:08	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 17:08	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 17:08	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 17:08	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:08	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 17:08	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 17:08	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:08	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW219-204

Lab Sample ID: 410-16534-5

Date Collected: 10/07/20 10:05

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:08	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 17:08	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 17:08	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		81 - 118		10/17/20 17:08	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/17/20 17:08	1
Dibromofluoromethane (Surr)	102		80 - 119		10/17/20 17:08	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 17:08	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/20/20 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	106		46 - 136	10/17/20 01:12	10/20/20 02:04	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/17/20 01:12	10/20/20 02:04	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 11:57	5
Chloride	25	D	2.0	1.5	1.0	mg/L		10/15/20 11:57	5
Sulfate	42	D	5.0	4.5	1.5	mg/L		10/15/20 11:57	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	46		0.20	0.15	0.096	mg/L		10/18/20 12:16	1
Magnesium	6.6		0.10	0.075	0.040	mg/L		10/18/20 12:16	1
Potassium	2.3		0.50	0.38	0.20	mg/L		10/18/20 12:16	1
Sodium	21		1.0	0.50	0.24	mg/L		10/18/20 12:16	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 22:27	1
Manganese	0.0049	J	0.010	0.0052	0.0031	mg/L		10/14/20 22:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 15:35	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 15:35	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/10/20 02:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW219-204

Lab Sample ID: 410-16534-5

Date Collected: 10/07/20 10:05

Matrix: Water

Date Received: 10/08/20 10:49

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:02	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/10/20 02:02	1
Nitrate Nitrite as N	0.93		0.10	0.090	0.040	mg/L		10/25/20 14:47	1

Client Sample ID: GW220-204

Lab Sample ID: 410-16534-6

Date Collected: 10/07/20 10:30

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:30	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 17:30	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 17:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:30	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:30	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:30	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 17:30	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 17:30	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 17:30	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 17:30	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 17:30	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 17:30	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 17:30	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:30	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 17:30	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW220-204

Lab Sample ID: 410-16534-6

Date Collected: 10/07/20 10:30

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U Q M	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/17/20 17:30	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L	—	10/17/20 17:30	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/17/20 17:30	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/17/20 17:30	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/17/20 17:30	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/17/20 17:30	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/17/20 17:30	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/17/20 17:30	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/17/20 17:30	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/17/20 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		81 - 118		10/17/20 17:30	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 17:30	1
Dibromofluoromethane (Surr)	101		80 - 119		10/17/20 17:30	1
Toluene-d8 (Surr)	102		89 - 112		10/17/20 17:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L	—	10/20/20 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	110		46 - 136	10/17/20 01:12	10/20/20 02:21	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 01:12	10/20/20 02:21	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	10/15/20 13:10	5
Chloride	12	J1 D	2.0	1.5	1.0	mg/L	—	10/15/20 13:10	5
Sulfate	29	D	5.0	4.5	1.5	mg/L	—	10/15/20 13:10	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW220-204

Lab Sample ID: 410-16534-6

Date Collected: 10/07/20 10:30

Matrix: Water

Date Received: 10/08/20 10:49

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	36		0.20	0.15	0.096	mg/L		10/18/20 12:20	1
Magnesium	4.8		0.10	0.075	0.040	mg/L		10/18/20 12:20	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/18/20 12:20	1
Sodium	19		1.0	0.50	0.24	mg/L		10/18/20 12:20	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 22:24	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 22:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00070	J	0.0020	0.0016	0.00068	mg/L		10/13/20 15:37	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 15:37	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/10/20 02:10	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:10	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/10/20 02:10	1
Nitrate Nitrite as N	0.11		0.10	0.090	0.040	mg/L		10/25/20 14:49	1

Client Sample ID: GW221-204

Lab Sample ID: 410-16534-7

Date Collected: 10/07/20 10:55

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:52	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 17:52	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 17:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:52	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:52	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 17:52	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW221-204

Lab Sample ID: 410-16534-7

Date Collected: 10/07/20 10:55

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 17:52	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 17:52	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 17:52	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 17:52	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 17:52	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 17:52	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:52	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 17:52	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 17:52	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 17:52	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 17:52	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 17:52	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 17:52	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 17:52	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 17:52	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 17:52	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 17:52	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		81 - 118					10/17/20 17:52	1
4-Bromofluorobenzene (Surr)	96		85 - 114					10/17/20 17:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW221-204

Lab Sample ID: 410-16534-7

Date Collected: 10/07/20 10:55

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 119		10/17/20 17:52	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 17:52	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/20/20 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	108		46 - 136	10/17/20 01:12	10/20/20 02:37	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/17/20 01:12	10/20/20 02:37	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 14:58	5
Chloride	9.8	D	2.0	1.5	1.0	mg/L		10/15/20 14:58	5
Sulfate	28	D	5.0	4.5	1.5	mg/L		10/15/20 14:58	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	35		0.20	0.15	0.096	mg/L		10/18/20 12:23	1
Magnesium	4.5		0.10	0.075	0.040	mg/L		10/18/20 12:23	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/18/20 12:23	1
Sodium	21		1.0	0.50	0.24	mg/L		10/18/20 12:23	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 22:14	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 22:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 15:39	1
Lead	0.00025	J	0.00050	0.00025	0.000071	mg/L		10/13/20 15:39	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/10/20 02:29	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:29	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/10/20 02:29	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/25/20 14:50	1

Client Sample ID: TB204-20

Lab Sample ID: 410-16534-8

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:01	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-20

Lab Sample ID: 410-16534-8

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 12:01	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:01	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:01	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:01	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:01	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:01	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 12:01	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 12:01	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 12:01	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 12:01	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 12:01	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 12:01	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 12:01	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:01	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 12:01	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 12:01	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:01	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:01	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:01	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-20

Lab Sample ID: 410-16534-8

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 12:01	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:01	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:01	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 12:01	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:01	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		81 - 118		10/17/20 12:01	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 12:01	1
Dibromofluoromethane (Surr)	101		80 - 119		10/17/20 12:01	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 12:01	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	110		46 - 136	10/17/20 01:12	10/20/20 02:54	1
1,1,2,2-Tetrachloroethane (2C)	102		46 - 136	10/17/20 01:12	10/20/20 02:54	1

Client Sample ID: GW201-204

Lab Sample ID: 410-16534-9

Date Collected: 10/07/20 08:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:14	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 18:14	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:14	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 18:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:14	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW201-204

Lab Sample ID: 410-16534-9

Date Collected: 10/07/20 08:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/17/20 18:14	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:14	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:14	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 18:14	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 18:14	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 18:14	1
Acetone	6.3	J	20	2.0	0.70	ug/L		10/17/20 18:14	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 18:14	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 18:14	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 18:14	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:14	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 18:14	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 18:14	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 18:14	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:14	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 18:14	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 18:14	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:14	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:14	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW201-204

Lab Sample ID: 410-16534-9

Date Collected: 10/07/20 08:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 18:14	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:14	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		81 - 118		10/17/20 18:14	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 18:14	1
Dibromofluoromethane (Surr)	102		80 - 119		10/17/20 18:14	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 18:14	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	114		46 - 136	10/17/20 01:12	10/20/20 03:11	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/17/20 01:12	10/20/20 03:11	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 15:35	5
Chloride	48	D	20	15	10	mg/L		10/15/20 15:53	50
Sulfate	84	D	50	45	15	mg/L		10/15/20 15:53	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	64		0.20	0.15	0.096	mg/L		10/18/20 12:26	1
Magnesium	8.8		0.10	0.075	0.040	mg/L		10/18/20 12:26	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/18/20 12:26	1
Sodium	30		1.0	0.50	0.24	mg/L		10/18/20 12:26	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 22:17	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 22:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 15:40	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 15:40	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L		10/10/20 02:37	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:37	1
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L		10/10/20 02:37	1
Nitrate Nitrite as N	1.8		0.10	0.090	0.040	mg/L		10/25/20 14:51	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW202-204

Lab Sample ID: 410-16534-10

Date Collected: 10/07/20 08:50

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:36	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 18:36	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:36	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 18:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:36	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:36	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:36	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:36	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 18:36	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 18:36	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 18:36	1
Acetone	1.3	J	20	2.0	0.70	ug/L		10/17/20 18:36	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 18:36	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 18:36	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 18:36	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:36	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 18:36	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 18:36	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW202-204

Lab Sample ID: 410-16534-10

Date Collected: 10/07/20 08:50

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 18:36	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:36	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 18:36	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 18:36	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:36	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:36	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 18:36	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:36	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		81 - 118		10/17/20 18:36	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/17/20 18:36	1
Dibromofluoromethane (Surr)	103		80 - 119		10/17/20 18:36	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 18:36	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	120		46 - 136	10/17/20 01:12	10/20/20 04:01	1
1,1,2,2-Tetrachloroethane (2C)	105		46 - 136	10/17/20 01:12	10/20/20 04:01	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 16:47	5
Chloride	21	D	2.0	1.5	1.0	mg/L		10/15/20 16:47	5
Sulfate	38	D	5.0	4.5	1.5	mg/L		10/15/20 16:47	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	42		0.20	0.15	0.096	mg/L		10/18/20 12:29	1
Magnesium	5.7		0.10	0.075	0.040	mg/L		10/18/20 12:29	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/18/20 12:29	1
Sodium	30		1.0	0.50	0.24	mg/L		10/18/20 12:29	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 10:34	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW202-204

Lab Sample ID: 410-16534-10

Date Collected: 10/07/20 08:50

Matrix: Water

Date Received: 10/08/20 10:49

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L	—	10/13/20 10:34	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00082	J	0.0020	0.0016	0.00068	mg/L	—	10/15/20 12:45	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/15/20 12:45	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	—	10/10/20 02:44	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/10/20 02:44	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	—	10/10/20 02:44	1
Nitrate Nitrite as N	0.51		0.10	0.090	0.040	mg/L	—	10/25/20 14:53	1

Client Sample ID: GW203-204

Lab Sample ID: 410-16534-11

Date Collected: 10/07/20 09:15

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/17/20 18:58	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/17/20 18:58	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/17/20 18:58	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/17/20 18:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/17/20 18:58	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/17/20 18:58	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/17/20 18:58	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/17/20 18:58	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/17/20 18:58	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/17/20 18:58	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 18:58	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/17/20 18:58	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/17/20 18:58	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/17/20 18:58	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/17/20 18:58	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 18:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW203-204

Lab Sample ID: 410-16534-11

Date Collected: 10/07/20 09:15

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 18:58	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:58	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 18:58	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 18:58	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 18:58	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 18:58	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 18:58	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 18:58	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 18:58	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 18:58	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 18:58	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 18:58	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 18:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		81 - 118		10/17/20 18:58	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/17/20 18:58	1
Dibromofluoromethane (Surr)	104		80 - 119		10/17/20 18:58	1
Toluene-d8 (Surr)	102		89 - 112		10/17/20 18:58	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/20/20 04:18	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW203-204

Lab Sample ID: 410-16534-11

Date Collected: 10/07/20 09:15

Matrix: Water

Date Received: 10/08/20 10:49

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136	10/17/20 01:12	10/20/20 04:18	1
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/17/20 01:12	10/20/20 04:18	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 17:23	5
Chloride	10	D	2.0	1.5	1.0	mg/L		10/15/20 17:23	5
Sulfate	30	D	5.0	4.5	1.5	mg/L		10/15/20 17:23	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	37		0.20	0.15	0.096	mg/L		10/18/20 12:39	1
Magnesium	4.9		0.10	0.075	0.040	mg/L		10/18/20 12:39	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/18/20 12:39	1
Sodium	21		1.0	0.50	0.24	mg/L		10/18/20 12:39	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 10:44	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/13/20 10:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00086	J	0.0020	0.0016	0.00068	mg/L		10/15/20 12:43	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 12:43	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/10/20 03:57	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 03:57	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/10/20 03:57	1
Nitrate Nitrite as N	0.044	J J1	0.10	0.090	0.040	mg/L		10/25/20 14:57	1

Client Sample ID: TB204-16

Lab Sample ID: 410-16534-12

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:23	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 12:23	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:23	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:23	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-16

Lab Sample ID: 410-16534-12

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:23	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:23	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:23	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 12:23	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 12:23	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 12:23	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 12:23	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 12:23	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 12:23	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 12:23	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:23	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 12:23	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 12:23	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:23	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:23	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:23	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 12:23	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:23	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:23	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-16

Lab Sample ID: 410-16534-12

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 12:23	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:23	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		81 - 118		10/17/20 12:23	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 12:23	1
Dibromofluoromethane (Surr)	101		80 - 119		10/17/20 12:23	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 12:23	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/17/20 01:12	10/20/20 04:34	1
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/17/20 01:12	10/20/20 04:34	1

Client Sample ID: GW216-204

Lab Sample ID: 410-16534-13

Date Collected: 10/07/20 12:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:50	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 13:50	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:50	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:50	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:50	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:50	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:50	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 13:50	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW216-204

Lab Sample ID: 410-16534-13

Date Collected: 10/07/20 12:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 13:50	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 13:50	1
Acetone	0.77	J	20	2.0	0.70	ug/L		10/17/20 13:50	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 13:50	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 13:50	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 13:50	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:50	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 13:50	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 13:50	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:50	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:50	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:50	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 13:50	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:50	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:50	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 13:50	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:50	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 13:50	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac		
1,2-Dichloroethane-d4 (Surr)	114		81 - 118			10/17/20 13:50	1		
4-Bromofluorobenzene (Surr)	96		85 - 114			10/17/20 13:50	1		

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW216-204

Lab Sample ID: 410-16534-13

Date Collected: 10/07/20 12:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 119		10/17/20 13:50	1
Toluene-d8 (Surr)	102		89 - 112		10/17/20 13:50	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 04:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	107		46 - 136	10/17/20 01:12	10/20/20 04:51	1
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136	10/17/20 01:12	10/20/20 04:51	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 18:00	5
Chloride	26	D	2.0	1.5	1.0	mg/L		10/15/20 18:00	5
Sulfate	30	D	5.0	4.5	1.5	mg/L		10/15/20 18:00	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	40		0.20	0.15	0.096	mg/L		10/18/20 12:42	1
Magnesium	5.5		0.10	0.075	0.040	mg/L		10/18/20 12:42	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/18/20 12:42	1
Sodium	20		1.0	0.50	0.24	mg/L		10/18/20 12:42	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U J1	0.21	0.10	0.041	mg/L		10/13/20 10:11	1
Manganese	0.0052	U Q J1	0.010	0.0052	0.0031	mg/L		10/13/20 10:11	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L		10/15/20 12:32	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 12:32	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/10/20 03:07	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 03:07	1
Total Alkalinity as CaCO3 to pH 4.5	110	J1	8.0	6.0	8.0	mg/L		10/10/20 03:07	1
Nitrate Nitrite as N	0.42		0.10	0.090	0.040	mg/L		10/25/20 15:03	1

Client Sample ID: TB204-17

Lab Sample ID: 410-16534-14

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:44	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-17

Lab Sample ID: 410-16534-14

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 12:44	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:44	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:44	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:44	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:44	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:44	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 12:44	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 12:44	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 12:44	1
Acetone	1.3	J	20	2.0	0.70	ug/L		10/17/20 12:44	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 12:44	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 12:44	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 12:44	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:44	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 12:44	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 12:44	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:44	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 12:44	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 12:44	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-17

Lab Sample ID: 410-16534-14

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 12:44	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 12:44	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 12:44	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 12:44	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 12:44	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		81 - 118		10/17/20 12:44	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 12:44	1
Dibromofluoromethane (Surr)	100		80 - 119		10/17/20 12:44	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 12:44	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/20/20 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	95		46 - 136	10/17/20 01:12	10/20/20 05:41	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/17/20 01:12	10/20/20 05:41	1

Client Sample ID: GW095-204

Lab Sample ID: 410-16534-15

Date Collected: 10/07/20 13:41

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 14:40	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 14:40	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 14:40	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 14:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 14:40	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW095-204

Lab Sample ID: 410-16534-15

Date Collected: 10/07/20 13:41

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 14:40	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 14:40	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 14:40	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 14:40	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 14:40	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 14:40	1
Acetone	1.6	J Q	20	2.0	0.70	ug/L		10/21/20 14:40	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 14:40	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 14:40	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 14:40	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 14:40	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 14:40	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 14:40	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 14:40	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 14:40	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 14:40	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 14:40	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 14:40	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 14:40	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Toluene	0.61	J	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW095-204

Lab Sample ID: 410-16534-15

Date Collected: 10/07/20 13:41

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 14:40	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 14:40	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/21/20 14:40	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/21/20 14:40	1
Dibromofluoromethane (Surr)	97		80 - 119		10/21/20 14:40	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 14:40	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/19/20 21:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/17/20 00:09	10/19/20 21:53	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/17/20 00:09	10/19/20 21:53	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 18:36	5
Chloride	59	D	20	15	10	mg/L		10/15/20 18:54	50
Sulfate	37	D	5.0	4.5	1.5	mg/L		10/15/20 18:36	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	57		0.20	0.15	0.096	mg/L		10/18/20 12:45	1
Magnesium	8.5		0.10	0.075	0.040	mg/L		10/18/20 12:45	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/18/20 12:45	1
Sodium	27		1.0	0.50	0.24	mg/L		10/18/20 12:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U J1	0.21	0.10	0.041	mg/L		10/16/20 12:33	1
Manganese	0.026	J1	0.010	0.0052	0.0031	mg/L		10/16/20 12:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 13:58	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 13:58	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L		10/10/20 03:31	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 03:31	1
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	8.0	mg/L		10/10/20 03:31	1
Nitrate Nitrite as N	0.25		0.10	0.090	0.040	mg/L		10/25/20 15:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-22

Lab Sample ID: 410-16534-16

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:06	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 13:06	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:06	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:06	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:06	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:06	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 13:06	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 13:06	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 13:06	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 13:06	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 13:06	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 13:06	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 13:06	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:06	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 13:06	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 13:06	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-22

Lab Sample ID: 410-16534-16

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:06	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:06	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:06	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 13:06	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:06	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:06	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 13:06	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:06	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		81 - 118		10/17/20 13:06	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 13:06	1
Dibromofluoromethane (Surr)	101		80 - 119		10/17/20 13:06	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 13:06	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/19/20 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/17/20 00:09	10/19/20 22:10	1
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136	10/17/20 00:09	10/19/20 22:10	1

Client Sample ID: GW084-204

Lab Sample ID: 410-16534-17

Date Collected: 10/06/20 13:49

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 15:40	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 15:40	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 15:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW084-204

Lab Sample ID: 410-16534-17

Date Collected: 10/06/20 13:49

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 15:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 15:40	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 15:40	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 15:40	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 15:40	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 15:40	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 15:40	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 15:40	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 15:40	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 15:40	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 15:40	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 15:40	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 15:40	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 15:40	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 15:40	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 15:40	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 15:40	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 15:40	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 15:40	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 15:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW084-204

Lab Sample ID: 410-16534-17

Date Collected: 10/06/20 13:49

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 15:40	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Toluene	0.69	J	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 15:40	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 15:40	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		81 - 118		10/17/20 15:40	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 15:40	1
Dibromofluoromethane (Surr)	100		80 - 119		10/17/20 15:40	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 15:40	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136	10/17/20 01:40	10/20/20 00:40	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/17/20 01:40	10/20/20 00:40	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 19:12	5
Chloride	8.4	D	2.0	1.5	1.0	mg/L		10/15/20 19:12	5
Sulfate	27	D	5.0	4.5	1.5	mg/L		10/15/20 19:12	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	32		0.20	0.15	0.096	mg/L		10/18/20 12:48	1
Magnesium	4.5		0.10	0.075	0.040	mg/L		10/18/20 12:48	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/18/20 12:48	1
Sodium	21		1.0	0.50	0.24	mg/L		10/18/20 12:48	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 10:48	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/13/20 10:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/15/20 12:50	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 12:50	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L		10/10/20 04:21	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW084-204

Lab Sample ID: 410-16534-17

Date Collected: 10/06/20 13:49

Matrix: Water

Date Received: 10/08/20 10:49

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 04:21	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/10/20 04:21	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/25/20 15:06	1

Client Sample ID: GW096-204

Lab Sample ID: 410-16534-18

Date Collected: 10/07/20 11:11

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 19:20	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 19:20	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 19:20	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 19:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 19:20	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 19:20	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 19:20	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 19:20	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 19:20	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 19:20	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 19:20	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 19:20	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 19:20	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 19:20	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 19:20	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 19:20	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:20	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 19:20	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:20	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW096-204

Lab Sample ID: 410-16534-18

Date Collected: 10/07/20 11:11

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/17/20 19:20	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L	—	10/17/20 19:20	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/17/20 19:20	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/17/20 19:20	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/17/20 19:20	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/17/20 19:20	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/17/20 19:20	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Toluene	0.80	J	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/17/20 19:20	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/17/20 19:20	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/17/20 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		81 - 118		10/17/20 19:20	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 19:20	1
Dibromofluoromethane (Surr)	101		80 - 119		10/17/20 19:20	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 19:20	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L	—	10/19/20 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136	10/17/20 00:09	10/19/20 22:27	1
1,1,2,2-Tetrachloroethane (2C)	90		46 - 136	10/17/20 00:09	10/19/20 22:27	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	10/15/20 20:25	5
Chloride	7.7	D	2.0	1.5	1.0	mg/L	—	10/15/20 20:25	5
Sulfate	27	D	5.0	4.5	1.5	mg/L	—	10/15/20 20:25	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW096-204

Lab Sample ID: 410-16534-18

Date Collected: 10/07/20 11:11

Matrix: Water

Date Received: 10/08/20 10:49

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	31		0.20	0.15	0.096	mg/L		10/18/20 12:51	1
Magnesium	4.5		0.10	0.075	0.040	mg/L		10/18/20 12:51	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/18/20 12:51	1
Sodium	21		1.0	0.50	0.24	mg/L		10/18/20 12:51	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 11:04	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/13/20 11:04	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L		10/15/20 12:52	1
Lead	0.00021	J	0.00050	0.00025	0.000071	mg/L		10/15/20 12:52	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/10/20 04:05	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 04:05	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/10/20 04:05	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/25/20 15:07	1

Client Sample ID: GW096-604

Lab Sample ID: 410-16534-19

Date Collected: 10/07/20 11:11

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 19:42	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 19:42	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 19:42	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 19:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 19:42	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/17/20 19:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 19:42	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 19:42	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 19:42	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW096-604

Lab Sample ID: 410-16534-19

Date Collected: 10/07/20 11:11

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 19:42	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 19:42	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 19:42	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 19:42	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 19:42	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 19:42	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 19:42	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 19:42	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 19:42	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 19:42	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 19:42	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 19:42	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 19:42	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 19:42	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 19:42	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Toluene	0.83	J	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 19:42	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 19:42	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		81 - 118		10/17/20 19:42	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 19:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW096-604

Lab Sample ID: 410-16534-19

Date Collected: 10/07/20 11:11

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104	M	80 - 119		10/17/20 19:42	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 19:42	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/19/20 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136	10/17/20 00:09	10/19/20 22:43	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/17/20 00:09	10/19/20 22:43	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/15/20 21:01	5
Chloride	7.8	D	2.0	1.5	1.0	mg/L		10/15/20 21:01	5
Sulfate	26	D	5.0	4.5	1.5	mg/L		10/15/20 21:01	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	30		0.20	0.15	0.096	mg/L		10/18/20 12:54	1
Magnesium	4.4		0.10	0.075	0.040	mg/L		10/18/20 12:54	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/18/20 12:54	1
Sodium	20		1.0	0.50	0.24	mg/L		10/18/20 12:54	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 11:01	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/13/20 11:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/15/20 12:54	1
Lead	0.00021	J	0.00050	0.00025	0.000071	mg/L		10/15/20 12:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L		10/10/20 04:13	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 04:13	1
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L		10/10/20 04:13	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/25/20 15:09	1

Client Sample ID: TB204-21

Lab Sample ID: 410-16534-20

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:28	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-21

Lab Sample ID: 410-16534-20

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 13:28	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:28	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:28	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:28	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:28	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:28	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 13:28	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 13:28	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 13:28	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 13:28	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 13:28	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 13:28	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 13:28	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:28	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 13:28	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/17/20 13:28	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:28	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 13:28	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 13:28	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-21

Lab Sample ID: 410-16534-20

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 13:28	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 13:28	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 13:28	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 13:28	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/17/20 13:28	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		81 - 118		10/17/20 13:28	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/17/20 13:28	1
Dibromofluoromethane (Surr)	102		80 - 119		10/17/20 13:28	1
Toluene-d8 (Surr)	103		89 - 112		10/17/20 13:28	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/19/20 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136	10/17/20 00:09	10/19/20 23:00	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 00:09	10/19/20 23:00	1

Client Sample ID: GW217-204

Lab Sample ID: 410-16534-21

Date Collected: 10/07/20 11:55

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:40	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 00:40	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 00:40	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 00:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 00:40	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW217-204

Lab Sample ID: 410-16534-21

Date Collected: 10/07/20 11:55

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:40	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 00:40	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:40	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 00:40	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 00:40	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 00:40	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 00:40	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 00:40	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 00:40	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 00:40	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:40	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 00:40	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/19/20 00:40	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 00:40	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:40	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 00:40	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 00:40	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:40	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 00:40	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW217-204

Lab Sample ID: 410-16534-21

Date Collected: 10/07/20 11:55

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 00:40	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:40	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		81 - 118		10/19/20 00:40	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/19/20 00:40	1
Dibromofluoromethane (Surr)	102		80 - 119		10/19/20 00:40	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 00:40	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.029	0.020	0.0098	ug/L		10/19/20 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	120		46 - 136	10/17/20 00:09	10/19/20 23:17	1
1,1,2,2-Tetrachloroethane (2C)	103		46 - 136	10/17/20 00:09	10/19/20 23:17	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.5	J D	2.5	2.0	1.3	mg/L		10/16/20 08:33	5
Chloride	61	D	20	15	10	mg/L		10/16/20 08:50	50
Sulfate	37	D	5.0	4.5	1.5	mg/L		10/16/20 08:33	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	54		0.20	0.15	0.096	mg/L		10/18/20 12:58	1
Magnesium	7.0		0.10	0.075	0.040	mg/L		10/18/20 12:58	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/18/20 12:58	1
Sodium	24		1.0	0.50	0.24	mg/L		10/18/20 12:58	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 10:58	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/13/20 10:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/15/20 12:56	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 12:56	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/10/20 04:44	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 04:44	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/10/20 04:44	1
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L		10/25/20 15:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW218-204

Lab Sample ID: 410-16534-22

Date Collected: 10/07/20 11:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:02	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 01:02	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:02	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:02	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:02	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:02	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:02	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 01:02	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 01:02	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 01:02	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 01:02	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 01:02	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 01:02	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 01:02	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:02	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:02	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/19/20 01:02	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW218-204

Lab Sample ID: 410-16534-22

Date Collected: 10/07/20 11:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:02	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:02	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:02	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:02	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:02	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:02	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 01:02	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:02	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		81 - 118		10/19/20 01:02	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 01:02	1
Dibromofluoromethane (Surr)	103		80 - 119		10/19/20 01:02	1
Toluene-d8 (Surr)	103		89 - 112		10/19/20 01:02	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/19/20 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136	10/17/20 00:09	10/19/20 23:34	1
1,1,2,2-Tetrachloroethane (2C)	90		46 - 136	10/17/20 00:09	10/19/20 23:34	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/16/20 09:07	5
Chloride	8.7	D	2.0	1.5	1.0	mg/L		10/16/20 09:07	5
Sulfate	26	D	5.0	4.5	1.5	mg/L		10/16/20 09:07	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	35	B	0.20	0.15	0.096	mg/L		10/14/20 12:25	1
Magnesium	4.3	B	0.10	0.075	0.040	mg/L		10/14/20 12:25	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/14/20 12:25	1
Sodium	22		1.0	0.50	0.24	mg/L		10/14/20 12:25	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 10:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW218-204

Lab Sample ID: 410-16534-22

Date Collected: 10/07/20 11:25

Matrix: Water

Date Received: 10/08/20 10:49

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L	—	10/13/20 10:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00079	J	0.0020	0.0016	0.00068	mg/L	—	10/15/20 12:58	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/15/20 12:58	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	—	10/10/20 04:29	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/10/20 04:29	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	—	10/10/20 04:29	1
Nitrate Nitrite as N	0.047	J	0.10	0.090	0.040	mg/L	—	10/25/20 15:11	1

Client Sample ID: GW226-204

Lab Sample ID: 410-16534-23

Date Collected: 10/07/20 14:35

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 01:24	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/19/20 01:24	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 01:24	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 01:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 01:24	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 01:24	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 01:24	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 01:24	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/19/20 01:24	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/19/20 01:24	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 01:24	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/19/20 01:24	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/19/20 01:24	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/19/20 01:24	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/19/20 01:24	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 01:24	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW226-204

Lab Sample ID: 410-16534-23

Date Collected: 10/07/20 14:35

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 01:24	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:24	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:24	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/19/20 01:24	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:24	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:24	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:24	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:24	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:24	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:24	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 01:24	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:24	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		81 - 118		10/19/20 01:24	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/19/20 01:24	1
Dibromofluoromethane (Surr)	103		80 - 119		10/19/20 01:24	1
Toluene-d8 (Surr)	101		89 - 112		10/19/20 01:24	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/19/20 23:50	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW226-204

Lab Sample ID: 410-16534-23

Date Collected: 10/07/20 14:35

Matrix: Water

Date Received: 10/08/20 10:49

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136	10/17/20 00:09	10/19/20 23:50	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/17/20 00:09	10/19/20 23:50	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/16/20 09:24	5
Chloride	16	D	2.0	1.5	1.0	mg/L		10/16/20 09:24	5
Sulfate	37	D	5.0	4.5	1.5	mg/L		10/16/20 09:24	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	42	B	0.20	0.15	0.096	mg/L		10/14/20 12:29	1
Magnesium	5.9	B	0.10	0.075	0.040	mg/L		10/14/20 12:29	1
Potassium	2.3		0.50	0.38	0.20	mg/L		10/14/20 12:29	1
Sodium	24		1.0	0.50	0.24	mg/L		10/14/20 12:29	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 10:51	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/13/20 10:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00069	J	0.0020	0.0016	0.00068	mg/L		10/15/20 13:00	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 13:00	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/10/20 04:37	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 04:37	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/10/20 04:37	1
Nitrate Nitrite as N	0.089	J	0.10	0.090	0.040	mg/L		10/25/20 15:13	1

Client Sample ID: TB204-18

Lab Sample ID: 410-16534-24

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 20:39	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:39	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:39	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-18

Lab Sample ID: 410-16534-24

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:39	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 20:39	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 20:39	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/18/20 20:39	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 20:39	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 20:39	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 20:39	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 20:39	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:39	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/18/20 20:39	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:39	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:39	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:39	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:39	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: TB204-18

Lab Sample ID: 410-16534-24

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 20:39	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		81 - 118		10/18/20 20:39	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/18/20 20:39	1
Dibromofluoromethane (Surr)	103		80 - 119		10/18/20 20:39	1
Toluene-d8 (Surr)	103		89 - 112		10/18/20 20:39	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 05:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	101		46 - 136	10/17/20 01:12	10/20/20 05:58	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/17/20 01:12	10/20/20 05:58	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(81-118)	(85-114)	(80-119)	(89-112)
410-16534-1	GW225-204	114	96	101	102
410-16534-2	GW225-604	114	96	101	103
410-16534-3	GW227-204	115	96	101	102
410-16534-4	TB204-19	110	96	100	103
410-16534-5	GW219-204	115	95	102	103
410-16534-6	GW220-204	114	96	101	102
410-16534-7	GW221-204	117	96	102	103
410-16534-8	TB204-20	112	96	101	103
410-16534-9	GW201-204	117	96	102	103
410-16534-10	GW202-204	116	95	103	103
410-16534-11	GW203-204	117	95	104	102
410-16534-12	TB204-16	112	96	101	103
410-16534-13	GW216-204	114	96	102	102
410-16534-13 MS	GW216-204	113	99	102	103
410-16534-13 MS	GW216-204	113	96	100	103
410-16534-13 MSD	GW216-204	113	100	100	103
410-16534-13 MSD	GW216-204	113	96	99 M	103
410-16534-14	TB204-17	112	96	100	103
410-16534-15	GW095-204	100	99	97	100
410-16534-15 MS	GW095-204	116	99	102	103
410-16534-15 MS	GW095-204	118	96	102	101
410-16534-15 MSD	GW095-204	117	100	101	103
410-16534-15 MSD	GW095-204	115	96	99	103
410-16534-16	TB204-22	113	96	101	103
410-16534-17	GW084-204	113	96	100	103
410-16534-18	GW096-204	116	96	101	103
410-16534-19	GW096-604	116	96	104 M	103
410-16534-20	TB204-21	113	95	102	103
410-16534-21	GW217-204	116	95	102	102
410-16534-22	GW218-204	117	96	103	103
410-16534-23	GW226-204	118	97	103	101
410-16534-24	TB204-18	118	96	103	103
LCS 410-55462/6	Lab Control Sample	110	98	100	103
LCS 410-55462/7	Lab Control Sample	111	97	99	103
LCS 410-55702/5	Lab Control Sample	115	99	103 M	103
LCS 410-55702/6	Lab Control Sample	115	94	100	102
LCS 410-56668/6	Lab Control Sample	97	100	97	100
LCS 410-56668/9	Lab Control Sample	97	100	95	100
LCSD 410-56668/10	Lab Control Sample Dup	99	100	96	100
LCSD 410-56668/8	Lab Control Sample Dup	97	100	97	100
MB 410-55462/9	Method Blank	111	96	100	104
MB 410-55702/8	Method Blank	117	95	102	101
MB 410-56668/12	Method Blank	99	100	97	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology

Job ID: 410-16534-1

Project/Site: Kirtland AFB Bulk Fuels Facility

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**Matrix: Water****Prep Type: Total/NA**

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-16534-1	GW225-204	105	99
410-16534-2	GW225-604	122	107
410-16534-3	GW227-204	106	92
410-16534-4	TB204-19	98	91
410-16534-5	GW219-204	106	91
410-16534-6	GW220-204	110	95
410-16534-7	GW221-204	108	96
410-16534-8	TB204-20	110	102
410-16534-9	GW201-204	114	99
410-16534-10	GW202-204	120	105
410-16534-11	GW203-204	100	89
410-16534-12	TB204-16	97	89
410-16534-13	GW216-204	107	94
410-16534-13 MS	GW216-204	103	92
410-16534-13 MSD	GW216-204	105	92
410-16534-14	TB204-17	95	91
410-16534-15	GW095-204	104	91
410-16534-15 MS	GW095-204	107	97
410-16534-15 MSD	GW095-204	111	99
410-16534-16	TB204-22	97	92
410-16534-17	GW084-204	94	91
410-16534-18	GW096-204	99	90
410-16534-19	GW096-604	99	93
410-16534-20	TB204-21	99	95
410-16534-21	GW217-204	120	103
410-16534-22	GW218-204	96	90
410-16534-23	GW226-204	102	91
410-16534-24	TB204-18	101	93
LCS 410-55438/2-A	Lab Control Sample	99	95
LCS 410-55443/2-A	Lab Control Sample	90	85
LCS 410-55444/2-A	Lab Control Sample	104	97
LCSD 410-55438/3-A	Lab Control Sample Dup	102	99
LCSD 410-55443/3-A	Lab Control Sample Dup	93	89
LCSD 410-55444/3-A	Lab Control Sample Dup	105	100
MB 410-55438/1-A	Method Blank	95	91
MB 410-55443/1-A	Method Blank	94	90
MB 410-55444/1-A	Method Blank	94	92

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-55462/9

Matrix: Water

Analysis Batch: 55462

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 10:54	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/17/20 10:54	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 10:54	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 10:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 10:54	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 10:54	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 10:54	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 10:54	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 10:54	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/17/20 10:54	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/17/20 10:54	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/17/20 10:54	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/17/20 10:54	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/17/20 10:54	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/17/20 10:54	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 10:54	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 10:54	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/17/20 10:54	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-55462/9

Matrix: Water

Analysis Batch: 55462

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 10:54	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/17/20 10:54	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/17/20 10:54	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/17/20 10:54	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/17/20 10:54	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/17/20 10:54	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/17/20 10:54	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/17/20 10:54	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/17/20 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		81 - 118		10/17/20 10:54	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/17/20 10:54	1
Dibromofluoromethane (Surr)	100		80 - 119		10/17/20 10:54	1
Toluene-d8 (Surr)	104		89 - 112		10/17/20 10:54	1

Lab Sample ID: LCS 410-55462/6

Matrix: Water

Analysis Batch: 55462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.7		ug/L		99	78 - 124
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.9		ug/L		105	77 - 125
1,1-Dichloroethene	20.0	20.9		ug/L		104	71 - 131
1,1-Dichloropropene	20.0	20.9		ug/L		104	79 - 125
1,2,3-Trichlorobenzene	20.0	18.9		ug/L		95	69 - 129
1,2,3-Trichloropropane	20.0	20.9		ug/L		105	73 - 122
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	69 - 130
1,2,4-Trimethylbenzene	20.0	21.0		ug/L		105	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		102	62 - 128
1,2-Dibromoethane	20.0	19.6		ug/L		98	77 - 121
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	80 - 119
1,2-Dichloroethane	20.0	21.1		ug/L		105	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55462/6

Matrix: Water

Analysis Batch: 55462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.5		ug/L		103	78 - 122
1,3,5-Trimethylbenzene	20.0	21.4		ug/L		107	75 - 124
1,3-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 119
1,3-Dichloropropane	20.0	20.2		ug/L		101	80 - 119
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	79 - 118
2,2-Dichloropropane	20.0	20.8		ug/L		104	60 - 139
2-Butanone	150	148		ug/L		99	56 - 143
2-Chlorotoluene	20.0	20.4		ug/L		102	79 - 122
2-Hexanone	100	98.8		ug/L		99	57 - 139
4-Chlorotoluene	20.0	20.3		ug/L		101	78 - 122
4-Methyl-2-pentanone	100	98.6		ug/L		99	67 - 130
Acetone	150	164		ug/L		109	39 - 160
Acrolein	150	135		ug/L		90	39 - 155
Acrylonitrile	100	98.0		ug/L		98	63 - 135
Benzene	20.0	20.6		ug/L		103	42 - 138
Bromobenzene	20.0	20.3		ug/L		102	80 - 120
Bromochloromethane	20.0	19.6		ug/L		98	78 - 123
Bromodichloromethane	20.0	20.5		ug/L		102	79 - 125
Bromoform	20.0	16.7		ug/L		84	66 - 130
Bromomethane	20.0	18.0		ug/L		90	53 - 141
Carbon disulfide	20.0	21.0		ug/L		105	64 - 133
Carbon tetrachloride	20.0	20.4		ug/L		102	72 - 136
Chlorobenzene	20.0	20.3		ug/L		102	82 - 118
Chloroethane	20.0	15.9		ug/L		80	60 - 138
Chloroform	20.0	20.9		ug/L		105	79 - 124
Chloromethane	20.0	15.1		ug/L		76	50 - 139
cis-1,2-Dichloroethene	20.0	21.2		ug/L		106	78 - 123
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	75 - 124
Dibromochloromethane	20.0	20.1		ug/L		100	74 - 126
Dibromomethane	20.0	19.9		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	15.7		ug/L		78	32 - 152
Ethylbenzene	20.0	21.0		ug/L		105	79 - 121
Hexachlorobutadiene	20.0	16.5		ug/L		82	66 - 134
Isopropylbenzene	20.0	20.8		ug/L		104	72 - 131
m&p-Xylene	40.0	42.3		ug/L		106	80 - 121
Methyl tertiary butyl ether	20.0	19.5		ug/L		98	71 - 124
Methylene Chloride	20.0	21.5		ug/L		107	74 - 124
Naphthalene	20.0	20.2		ug/L		101	61 - 128
n-Butylbenzene	20.0	21.2		ug/L		106	75 - 128
N-Propylbenzene	20.0	21.7		ug/L		109	76 - 126
o-Xylene	20.0	20.8		ug/L		104	78 - 122
p-Isopropyltoluene	20.0	21.4		ug/L		107	77 - 127
sec-Butylbenzene	20.0	21.7		ug/L		108	77 - 126
Styrene	20.0	21.0		ug/L		105	78 - 123
tert-Butylbenzene	20.0	20.4		ug/L		102	78 - 124
Tetrachloroethene	20.0	20.1		ug/L		100	74 - 129
Toluene	20.0	20.9		ug/L		105	80 - 121
trans-1,2-Dichloroethene	20.0	20.7		ug/L		103	75 - 124
trans-1,3-Dichloropropene	20.0	20.3		ug/L		101	73 - 127

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55462/6

Matrix: Water

Analysis Batch: 55462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.5		ug/L		103	79 - 123
Trichlorofluoromethane	20.0	18.0		ug/L		90	65 - 141
Vinyl chloride	20.0	16.2		ug/L		81	58 - 137
Xylenes, Total	60.0	63.1		ug/L		105	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		81 - 118
4-Bromofluorobenzene (Surr)	98		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCS 410-55462/7

Matrix: Water

Analysis Batch: 55462

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	105		ug/L		105	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16534-13 MS

Matrix: Water

Analysis Batch: 55462

Client Sample ID: GW216-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.4		ug/L		102	78 - 124
1,1,1-Trichloroethane	0.50	U	20.0	23.1		ug/L		116	74 - 131
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.0		ug/L		100	71 - 121
1,1,2-Trichloroethane	0.50	U	20.0	21.1		ug/L		106	80 - 119
1,1-Dichloroethane	0.50	U	20.0	22.1		ug/L		111	77 - 125
1,1-Dichloroethene	0.50	U	20.0	22.8		ug/L		114	71 - 131
1,1-Dichloropropene	0.50	U	20.0	23.1		ug/L		115	79 - 125
1,2,3-Trichlorobenzene	1.0	U	20.0	18.9		ug/L		94	69 - 129
1,2,3-Trichloropropane	0.50	U	20.0	19.9		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	1.0	U	20.0	18.7		ug/L		93	69 - 130
1,2,4-Trimethylbenzene	2.0	U	20.0	21.5		ug/L		107	76 - 124
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	19.7		ug/L		99	62 - 128
1,2-Dibromoethane	0.50	U	20.0	19.9		ug/L		99	77 - 121
1,2-Dichlorobenzene	0.50	U	20.0	20.8		ug/L		104	80 - 119
1,2-Dichloroethane	0.50	U	20.0	21.8		ug/L		109	73 - 128
1,2-Dichloropropane	0.50	U	20.0	21.4		ug/L		107	78 - 122
1,3,5-Trimethylbenzene	1.0	U	20.0	22.2		ug/L		111	75 - 124
1,3-Dichlorobenzene	0.50	U	20.0	21.1		ug/L		105	80 - 119
1,3-Dichloropropane	0.50	U	20.0	20.1		ug/L		101	80 - 119

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16534-13 MS

Matrix: Water

Analysis Batch: 55462

Client Sample ID: GW216-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.50	U	20.0	21.2		ug/L		106	79 - 118
2,2-Dichloropropane	0.50	U	20.0	22.7		ug/L		114	60 - 139
2-Butanone	1.0	U	150	144		ug/L		96	56 - 143
2-Chlorotoluene	0.50	U	20.0	20.9		ug/L		104	79 - 122
2-Hexanone	1.0	U	100	96.1		ug/L		96	57 - 139
4-Chlorotoluene	0.50	U	20.0	20.9		ug/L		105	78 - 122
4-Methyl-2-pentanone	1.0	U	100	96.9		ug/L		97	67 - 130
Acetone	0.77	J	150	156		ug/L		104	39 - 160
Acrolein	5.0	U	150	132		ug/L		88	39 - 155
Acrylonitrile	1.0	U	100	95.3		ug/L		95	63 - 135
Benzene	0.50	U	20.0	21.7		ug/L		108	42 - 138
Bromobenzene	0.50	U	20.0	20.5		ug/L		103	80 - 120
Bromochloromethane	0.50	U	20.0	19.9		ug/L		99	78 - 123
Bromodichloromethane	0.50	U	20.0	21.4		ug/L		107	79 - 125
Bromoform	2.0	U	20.0	16.7		ug/L		84	66 - 130
Bromomethane	0.50	U	20.0	18.5		ug/L		93	53 - 141
Carbon disulfide	0.50	U	20.0	23.0		ug/L		115	64 - 133
Carbon tetrachloride	0.50	U	20.0	22.9		ug/L		115	72 - 136
Chlorobenzene	0.50	U	20.0	21.4		ug/L		107	82 - 118
Chloroethane	0.50	U Q	20.0	16.6		ug/L		83	60 - 138
Chloroform	0.50	U	20.0	22.5		ug/L		112	79 - 124
Chloromethane	0.50	U Q	20.0	15.2		ug/L		76	50 - 139
cis-1,2-Dichloroethene	0.50	U	20.0	22.6		ug/L		113	78 - 123
cis-1,3-Dichloropropene	0.50	U	20.0	20.3		ug/L		101	75 - 124
Dibromochloromethane	0.50	U	20.0	20.3		ug/L		101	74 - 126
Dibromomethane	0.50	U	20.0	20.6		ug/L		103	79 - 123
Dichlorodifluoromethane	0.50	U	20.0	16.8		ug/L		84	32 - 152
Ethylbenzene	0.80	U	20.0	22.1		ug/L		110	79 - 121
Hexachlorobutadiene	4.0	U Q	20.0	17.9		ug/L		90	66 - 134
Isopropylbenzene	0.50	U	20.0	22.2		ug/L		111	72 - 131
m&p-Xylene	2.0	U	40.0	44.4		ug/L		111	80 - 121
Methyl tertiary butyl ether	0.50	U	20.0	19.4		ug/L		97	71 - 124
Methylene Chloride	0.50	U	20.0	22.0		ug/L		110	74 - 124
Naphthalene	2.0	U	20.0	19.8		ug/L		99	61 - 128
n-Butylbenzene	0.50	U	20.0	22.3		ug/L		111	75 - 128
N-Propylbenzene	0.50	U	20.0	22.8		ug/L		114	76 - 126
o-Xylene	0.80	U	20.0	21.7		ug/L		108	78 - 122
p-Isopropyltoluene	0.50	U	20.0	22.2		ug/L		111	77 - 127
sec-Butylbenzene	0.50	U	20.0	22.7		ug/L		113	77 - 126
Styrene	0.50	U	20.0	21.7		ug/L		109	78 - 123
tert-Butylbenzene	1.0	U	20.0	21.5		ug/L		107	78 - 124
Tetrachloroethene	0.50	U	20.0	21.4		ug/L		107	74 - 129
Toluene	0.50	U	20.0	21.9		ug/L		109	80 - 121
trans-1,2-Dichloroethene	0.50	U	20.0	22.0		ug/L		110	75 - 124
trans-1,3-Dichloropropene	0.50	U	20.0	20.4		ug/L		102	73 - 127
Trichloroethene	0.50	U	20.0	21.9		ug/L		110	79 - 123
Trichlorofluoromethane	0.50	U	20.0	20.4		ug/L		102	65 - 141
Vinyl chloride	0.50	U Q	20.0	17.5		ug/L		88	58 - 137
Xylenes, Total	2.0	U	60.0	66.1		ug/L		110	79 - 121

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16534-13 MS
Matrix: Water
Analysis Batch: 55462

Client Sample ID: GW216-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	2.0	U	100	106		ug/L		106	54 - 146

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16534-13 MSD
Matrix: Water
Analysis Batch: 55462

Client Sample ID: GW216-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.9		ug/L		104	78 - 124	3	20
1,1,1-Trichloroethane	0.50	U	20.0	23.5		ug/L		117	74 - 131	2	20
1,1,2,2-Tetrachloroethane	0.50	U	20.0	21.0		ug/L		105	71 - 121	5	20
1,1,2-Trichloroethane	0.50	U	20.0	21.5		ug/L		107	80 - 119	2	20
1,1-Dichloroethane	0.50	U	20.0	22.8		ug/L		114	77 - 125	3	20
1,1-Dichloroethene	0.50	U	20.0	23.3		ug/L		116	71 - 131	2	20
1,1-Dichloropropene	0.50	U	20.0	23.4		ug/L		117	79 - 125	1	20
1,2,3-Trichlorobenzene	1.0	U	20.0	19.4		ug/L		97	69 - 129	3	20
1,2,3-Trichloropropane	0.50	U	20.0	20.9		ug/L		104	73 - 122	5	20
1,2,4-Trichlorobenzene	1.0	U	20.0	19.0		ug/L		95	69 - 130	2	20
1,2,4-Trimethylbenzene	2.0	U	20.0	22.4		ug/L		112	76 - 124	4	20
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	20.5		ug/L		103	62 - 128	4	20
1,2-Dibromoethane	0.50	U	20.0	20.5		ug/L		103	77 - 121	3	20
1,2-Dichlorobenzene	0.50	U	20.0	21.4		ug/L		107	80 - 119	3	20
1,2-Dichloroethane	0.50	U	20.0	22.7		ug/L		113	73 - 128	4	20
1,2-Dichloropropane	0.50	U	20.0	22.0		ug/L		110	78 - 122	3	20
1,3,5-Trimethylbenzene	1.0	U	20.0	22.7		ug/L		113	75 - 124	2	20
1,3-Dichlorobenzene	0.50	U	20.0	21.6		ug/L		108	80 - 119	2	20
1,3-Dichloropropane	0.50	U	20.0	20.9		ug/L		105	80 - 119	4	20
1,4-Dichlorobenzene	0.50	U	20.0	21.5		ug/L		107	79 - 118	2	20
2,2-Dichloropropane	0.50	U	20.0	23.5		ug/L		118	60 - 139	4	20
2-Butanone	1.0	U	150	149		ug/L		100	56 - 143	4	20
2-Chlorotoluene	0.50	U	20.0	21.7		ug/L		109	79 - 122	4	20
2-Hexanone	1.0	U	100	99.9		ug/L		100	57 - 139	4	20
4-Chlorotoluene	0.50	U	20.0	21.3		ug/L		107	78 - 122	2	20
4-Methyl-2-pentanone	1.0	U	100	99.4		ug/L		99	67 - 130	3	20
Acetone	0.77	J	150	153		ug/L		102	39 - 160	2	20
Acrolein	5.0	U	150	139		ug/L		93	39 - 155	5	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16534-13 MSD

Matrix: Water

Analysis Batch: 55462

Client Sample ID: GW216-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrylonitrile	1.0	U	100	98.5		ug/L		98	63 - 135	3	20
Benzene	0.50	U	20.0	22.0		ug/L		110	42 - 138	1	20
Bromobenzene	0.50	U	20.0	21.3		ug/L		106	80 - 120	4	20
Bromochloromethane	0.50	U	20.0	20.3		ug/L		101	78 - 123	2	20
Bromodichloromethane	0.50	U	20.0	21.5		ug/L		107	79 - 125	0	20
Bromoform	2.0	U	20.0	17.2		ug/L		86	66 - 130	3	20
Bromomethane	0.50	U	20.0	20.1		ug/L		101	53 - 141	8	20
Carbon disulfide	0.50	U	20.0	23.3		ug/L		116	64 - 133	1	20
Carbon tetrachloride	0.50	U	20.0	23.3		ug/L		116	72 - 136	1	20
Chlorobenzene	0.50	U	20.0	21.7		ug/L		108	82 - 118	1	20
Chloroethane	0.50	U Q	20.0	17.4		ug/L		87	60 - 138	4	20
Chloroform	0.50	U	20.0	22.7		ug/L		114	79 - 124	1	20
Chloromethane	0.50	U Q	20.0	16.4		ug/L		82	50 - 139	8	20
cis-1,2-Dichloroethene	0.50	U	20.0	22.7		ug/L		114	78 - 123	0	20
cis-1,3-Dichloropropene	0.50	U	20.0	20.7		ug/L		103	75 - 124	2	20
Dibromochloromethane	0.50	U	20.0	20.6		ug/L		103	74 - 126	2	20
Dibromomethane	0.50	U	20.0	20.9		ug/L		105	79 - 123	1	20
Dichlorodifluoromethane	0.50	U	20.0	19.0		ug/L		95	32 - 152	12	20
Ethylbenzene	0.80	U	20.0	22.7		ug/L		114	79 - 121	3	20
Hexachlorobutadiene	4.0	U Q	20.0	18.4		ug/L		92	66 - 134	2	20
Isopropylbenzene	0.50	U	20.0	22.9		ug/L		114	72 - 131	3	20
m&p-Xylene	2.0	U	40.0	45.6		ug/L		114	80 - 121	3	20
Methyl tertiary butyl ether	0.50	U	20.0	20.1		ug/L		100	71 - 124	4	20
Methylene Chloride	0.50	U	20.0	22.1		ug/L		111	74 - 124	1	20
Naphthalene	2.0	U	20.0	20.5		ug/L		102	61 - 128	3	20
n-Butylbenzene	0.50	U	20.0	23.1		ug/L		116	75 - 128	4	20
N-Propylbenzene	0.50	U	20.0	23.6		ug/L		118	76 - 126	3	20
o-Xylene	0.80	U	20.0	22.2		ug/L		111	78 - 122	2	20
p-Isopropyltoluene	0.50	U	20.0	23.0		ug/L		115	77 - 127	3	20
sec-Butylbenzene	0.50	U	20.0	23.3		ug/L		117	77 - 126	3	20
Styrene	0.50	U	20.0	22.0		ug/L		110	78 - 123	1	20
tert-Butylbenzene	1.0	U	20.0	22.1		ug/L		111	78 - 124	3	20
Tetrachloroethene	0.50	U	20.0	21.6		ug/L		108	74 - 129	1	20
Toluene	0.50	U	20.0	22.3		ug/L		112	80 - 121	2	20
trans-1,2-Dichloroethene	0.50	U	20.0	22.1		ug/L		111	75 - 124	1	20
trans-1,3-Dichloropropene	0.50	U	20.0	20.9		ug/L		104	73 - 127	3	20
Trichloroethene	0.50	U	20.0	22.0		ug/L		110	79 - 123	0	20
Trichlorofluoromethane	0.50	U	20.0	21.1		ug/L		105	65 - 141	3	20
Vinyl chloride	0.50	U Q	20.0	18.4		ug/L		92	58 - 137	5	20
Xylenes, Total	2.0	U	60.0	67.8		ug/L		113	79 - 121	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16534-13 MSD

Matrix: Water

Analysis Batch: 55462

Client Sample ID: GW216-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	2.0	U	100	107		ug/L		107	54 - 146	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	113		81 - 118								
4-Bromofluorobenzene (Surr)	96		85 - 114								
Dibromofluoromethane (Surr)	99	M	80 - 119								
Toluene-d8 (Surr)	103		89 - 112								

Lab Sample ID: MB 410-55702/8

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 20:06	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:06	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:06	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 20:06	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 20:06	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/18/20 20:06	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 20:06	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 20:06	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 20:06	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 20:06	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-55702/8

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:06	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/18/20 20:06	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:06	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:06	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:06	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:06	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 20:06	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 20:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		81 - 118		10/18/20 20:06	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/18/20 20:06	1
Dibromofluoromethane (Surr)	102		80 - 119		10/18/20 20:06	1
Toluene-d8 (Surr)	101		89 - 112		10/18/20 20:06	1

Lab Sample ID: LCS 410-55702/5

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	78 - 124
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	74 - 131

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55702/5

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	80 - 119
1,1-Dichloroethane	20.0	20.7		ug/L		103	77 - 125
1,1-Dichloroethene	20.0	20.1		ug/L		100	71 - 131
1,1-Dichloropropene	20.0	20.5		ug/L		102	79 - 125
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	69 - 129
1,2,3-Trichloropropane	20.0	20.5		ug/L		103	73 - 122
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	69 - 130
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	62 - 128
1,2-Dibromoethane	20.0	19.5		ug/L		97	77 - 121
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	22.1		ug/L		111	73 - 128
1,2-Dichloropropane	20.0	20.6		ug/L		103	78 - 122
1,3,5-Trimethylbenzene	20.0	20.7		ug/L		103	75 - 124
1,3-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 119
1,3-Dichloropropane	20.0	19.8		ug/L		99	80 - 119
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	20.9		ug/L		104	60 - 139
2-Butanone	150	147		ug/L		98	56 - 143
2-Chlorotoluene	20.0	20.0		ug/L		100	79 - 122
2-Hexanone	100	97.4		ug/L		97	57 - 139
4-Chlorotoluene	20.0	20.0		ug/L		100	78 - 122
4-Methyl-2-pentanone	100	98.7		ug/L		99	67 - 130
Acetone	150	163		ug/L		109	39 - 160
Acrolein	150	139		ug/L		93	39 - 155
Acrylonitrile	100	97.9		ug/L		98	63 - 135
Benzene	20.0	20.1		ug/L		100	42 - 138
Bromobenzene	20.0	20.1		ug/L		100	80 - 120
Bromochloromethane	20.0	19.0		ug/L		95	78 - 123
Bromodichloromethane	20.0	21.0		ug/L		105	79 - 125
Bromoform	20.0	16.9		ug/L		84	66 - 130
Bromomethane	20.0	17.3		ug/L		87	53 - 141
Carbon disulfide	20.0	19.7		ug/L		99	64 - 133
Carbon tetrachloride	20.0	20.8		ug/L		104	72 - 136
Chlorobenzene	20.0	20.2		ug/L		101	82 - 118
Chloroethane	20.0	14.6		ug/L		73	60 - 138
Chloroform	20.0	21.1		ug/L		105	79 - 124
Chloromethane	20.0	13.3		ug/L		66	50 - 139
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	78 - 123
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	75 - 124
Dibromochloromethane	20.0	20.1		ug/L		100	74 - 126
Dibromomethane	20.0	20.2		ug/L		101	79 - 123
Dichlorodifluoromethane	20.0	15.9	M	ug/L		79	32 - 152
Ethylbenzene	20.0	20.4		ug/L		102	79 - 121
Hexachlorobutadiene	20.0	16.5		ug/L		83	66 - 134
Isopropylbenzene	20.0	20.3		ug/L		101	72 - 131
m&p-Xylene	40.0	41.8		ug/L		104	80 - 121
Methyl tertiary butyl ether	20.0	19.4		ug/L		97	71 - 124

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55702/5

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	20.0	20.5		ug/L		103	74 - 124
Naphthalene	20.0	20.1		ug/L		100	61 - 128
n-Butylbenzene	20.0	20.6		ug/L		103	75 - 128
N-Propylbenzene	20.0	21.1		ug/L		105	76 - 126
o-Xylene	20.0	20.3		ug/L		101	78 - 122
p-Isopropyltoluene	20.0	20.8		ug/L		104	77 - 127
sec-Butylbenzene	20.0	20.7		ug/L		104	77 - 126
Styrene	20.0	20.4		ug/L		102	78 - 123
tert-Butylbenzene	20.0	19.7		ug/L		98	78 - 124
Tetrachloroethene	20.0	19.2		ug/L		96	74 - 129
Toluene	20.0	20.3		ug/L		102	80 - 121
trans-1,2-Dichloroethene	20.0	19.7		ug/L		98	75 - 124
trans-1,3-Dichloropropene	20.0	20.1		ug/L		101	73 - 127
Trichloroethene	20.0	20.0		ug/L		100	79 - 123
Trichlorofluoromethane	20.0	17.9		ug/L		90	65 - 141
Vinyl chloride	20.0	15.3		ug/L		76	58 - 137
Xylenes, Total	60.0	62.1		ug/L		104	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	103	M	80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCS 410-55702/6

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	107		ug/L		107	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: 410-16534-15 MS

Matrix: Water

Analysis Batch: 55702

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.7		ug/L		104	78 - 124
1,1,1-Trichloroethane	0.50	U	20.0	23.4		ug/L		117	74 - 131
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.2		ug/L		101	71 - 121
1,1,2-Trichloroethane	0.50	U	20.0	21.5		ug/L		107	80 - 119
1,1-Dichloroethane	0.50	U	20.0	22.2		ug/L		111	77 - 125
1,1-Dichloroethene	0.50	U	20.0	22.6		ug/L		113	71 - 131

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16534-15 MS

Matrix: Water

Analysis Batch: 55702

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	0.50	U	20.0	22.9		ug/L		114	79 - 125
1,2,3-Trichlorobenzene	1.0	U	20.0	19.3		ug/L		96	69 - 129
1,2,3-Trichloropropane	0.50	U	20.0	20.7		ug/L		104	73 - 122
1,2,4-Trichlorobenzene	1.0	U	20.0	18.8		ug/L		94	69 - 130
1,2,4-Trimethylbenzene	2.0	U	20.0	21.8		ug/L		109	76 - 124
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	20.2		ug/L		101	62 - 128
1,2-Dibromoethane	0.50	U	20.0	19.6		ug/L		98	77 - 121
1,2-Dichlorobenzene	0.50	U	20.0	21.2		ug/L		106	80 - 119
1,2-Dichloroethane	0.50	U	20.0	22.8		ug/L		114	73 - 128
1,2-Dichloropropane	0.50	U	20.0	21.7		ug/L		108	78 - 122
1,3,5-Trimethylbenzene	1.0	U	20.0	22.1		ug/L		110	75 - 124
1,3-Dichlorobenzene	0.50	U	20.0	21.3		ug/L		107	80 - 119
1,3-Dichloropropane	0.50	U	20.0	20.2		ug/L		101	80 - 119
1,4-Dichlorobenzene	0.50	U	20.0	21.6		ug/L		108	79 - 118
2,2-Dichloropropane	0.50	U	20.0	22.9		ug/L		114	60 - 139
2-Butanone	1.0	U Q	150	146		ug/L		97	56 - 143
2-Chlorotoluene	0.50	U	20.0	20.9		ug/L		105	79 - 122
2-Hexanone	1.0	U	100	97.6		ug/L		98	57 - 139
4-Chlorotoluene	0.50	U	20.0	20.7		ug/L		104	78 - 122
4-Methyl-2-pentanone	1.0	U	100	97.9		ug/L		98	67 - 130
Acetone	1.6	J Q	150	158		ug/L		105	39 - 160
Acrolein	5.0	U	150	128		ug/L		85	39 - 155
Acrylonitrile	1.0	U	100	96.1		ug/L		96	63 - 135
Benzene	0.50	U	20.0	21.4		ug/L		107	42 - 138
Bromobenzene	0.50	U	20.0	20.6		ug/L		103	80 - 120
Bromochloromethane	0.50	U	20.0	19.7		ug/L		98	78 - 123
Bromodichloromethane	0.50	U	20.0	21.6		ug/L		108	79 - 125
Bromoform	2.0	U	20.0	17.2		ug/L		86	66 - 130
Bromomethane	0.50	U	20.0	19.1		ug/L		95	53 - 141
Carbon disulfide	0.50	U	20.0	22.4		ug/L		112	64 - 133
Carbon tetrachloride	0.50	U	20.0	23.4		ug/L		117	72 - 136
Chlorobenzene	0.50	U	20.0	21.4		ug/L		107	82 - 118
Chloroethane	0.50	U	20.0	16.4		ug/L		82	60 - 138
Chloroform	0.50	U	20.0	22.7		ug/L		113	79 - 124
Chloromethane	0.50	U	20.0	14.9		ug/L		74	50 - 139
cis-1,2-Dichloroethene	0.50	U	20.0	22.2		ug/L		111	78 - 123
cis-1,3-Dichloropropene	0.50	U	20.0	20.0		ug/L		100	75 - 124
Dibromochloromethane	0.50	U	20.0	20.2		ug/L		101	74 - 126
Dibromomethane	0.50	U	20.0	20.7		ug/L		104	79 - 123
Dichlorodifluoromethane	0.50	U	20.0	16.9		ug/L		84	32 - 152
Ethylbenzene	0.80	U	20.0	22.3		ug/L		111	79 - 121
Hexachlorobutadiene	4.0	U	20.0	17.9		ug/L		89	66 - 134
Isopropylbenzene	0.50	U	20.0	22.4		ug/L		112	72 - 131
m&p-Xylene	2.0	U	40.0	44.3		ug/L		111	80 - 121
Methyl tertiary butyl ether	0.50	U	20.0	19.1		ug/L		95	71 - 124
Methylene Chloride	0.50	U	20.0	21.8		ug/L		109	74 - 124
Naphthalene	2.0	U	20.0	20.3		ug/L		101	61 - 128
n-Butylbenzene	0.50	U	20.0	22.6		ug/L		113	75 - 128
N-Propylbenzene	0.50	U	20.0	22.8		ug/L		114	76 - 126

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16534-15 MS

Matrix: Water

Analysis Batch: 55702

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.80	U	20.0	21.9		ug/L		109	78 - 122
p-Isopropyltoluene	0.50	U	20.0	22.3		ug/L		112	77 - 127
sec-Butylbenzene	0.50	U	20.0	22.8		ug/L		114	77 - 126
Styrene	0.50	U	20.0	21.6		ug/L		108	78 - 123
tert-Butylbenzene	1.0	U	20.0	21.5		ug/L		107	78 - 124
Tetrachloroethene	0.50	U Q	20.0	21.1		ug/L		105	74 - 129
Toluene	0.61	J	20.0	22.4		ug/L		109	80 - 121
trans-1,2-Dichloroethene	0.50	U	20.0	21.9		ug/L		109	75 - 124
trans-1,3-Dichloropropene	0.50	U	20.0	20.3		ug/L		102	73 - 127
Trichloroethene	0.50	U	20.0	21.6		ug/L		108	79 - 123
Trichlorofluoromethane	0.50	U	20.0	21.0		ug/L		105	65 - 141
Vinyl chloride	0.50	U	20.0	16.8		ug/L		84	58 - 137
Xylenes, Total	2.0	U	60.0	66.2		ug/L		110	79 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16534-15 MS

Matrix: Water

Analysis Batch: 55702

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	2.0	U	100	110		ug/L		110	54 - 146

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	101		89 - 112

Lab Sample ID: 410-16534-15 MSD

Matrix: Water

Analysis Batch: 55702

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.50	U	20.0	20.7		ug/L		103	78 - 124	0	20
1,1,1-Trichloroethane	0.50	U	20.0	23.1		ug/L		116	74 - 131	1	20
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.1		ug/L		101	71 - 121	1	20
1,1,2-Trichloroethane	0.50	U	20.0	21.3		ug/L		106	80 - 119	1	20
1,1-Dichloroethane	0.50	U	20.0	22.2		ug/L		111	77 - 125	0	20
1,1-Dichloroethene	0.50	U	20.0	21.8		ug/L		109	71 - 131	3	20
1,1-Dichloropropene	0.50	U	20.0	23.1		ug/L		115	79 - 125	1	20
1,2,3-Trichlorobenzene	1.0	U	20.0	19.2		ug/L		96	69 - 129	1	20
1,2,3-Trichloropropane	0.50	U	20.0	20.4		ug/L		102	73 - 122	2	20
1,2,4-Trichlorobenzene	1.0	U	20.0	19.0		ug/L		95	69 - 130	1	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16534-15 MSD

Matrix: Water

Analysis Batch: 55702

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	2.0	U	20.0	21.4		ug/L		107	76 - 124	2	20
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	20.6		ug/L		103	62 - 128	2	20
1,2-Dibromoethane	0.50	U	20.0	19.8		ug/L		99	77 - 121	1	20
1,2-Dichlorobenzene	0.50	U	20.0	21.1		ug/L		106	80 - 119	0	20
1,2-Dichloroethane	0.50	U	20.0	23.1		ug/L		116	73 - 128	1	20
1,2-Dichloropropane	0.50	U	20.0	21.7		ug/L		108	78 - 122	0	20
1,3,5-Trimethylbenzene	1.0	U	20.0	21.9		ug/L		110	75 - 124	1	20
1,3-Dichlorobenzene	0.50	U	20.0	21.1		ug/L		105	80 - 119	1	20
1,3-Dichloropropane	0.50	U	20.0	20.4		ug/L		102	80 - 119	1	20
1,4-Dichlorobenzene	0.50	U	20.0	21.3		ug/L		106	79 - 118	2	20
2,2-Dichloropropane	0.50	U	20.0	23.1		ug/L		115	60 - 139	1	20
2-Butanone	1.0	U Q	150	148		ug/L		99	56 - 143	2	20
2-Chlorotoluene	0.50	U	20.0	21.0		ug/L		105	79 - 122	0	20
2-Hexanone	1.0	U	100	98.8		ug/L		99	57 - 139	1	20
4-Chlorotoluene	0.50	U	20.0	20.7		ug/L		103	78 - 122	0	20
4-Methyl-2-pentanone	1.0	U	100	99.2		ug/L		99	67 - 130	1	20
Acetone	1.6	J Q	150	151		ug/L		100	39 - 160	5	20
Acrolein	5.0	U	150	119		ug/L		80	39 - 155	7	20
Acrylonitrile	1.0	U	100	97.9		ug/L		98	63 - 135	2	20
Benzene	0.50	U	20.0	21.5		ug/L		107	42 - 138	0	20
Bromobenzene	0.50	U	20.0	20.7		ug/L		103	80 - 120	0	20
Bromochloromethane	0.50	U	20.0	19.2		ug/L		96	78 - 123	2	20
Bromodichloromethane	0.50	U	20.0	21.8		ug/L		109	79 - 125	1	20
Bromoform	2.0	U	20.0	17.1		ug/L		85	66 - 130	1	20
Bromomethane	0.50	U	20.0	19.1		ug/L		95	53 - 141	0	20
Carbon disulfide	0.50	U	20.0	22.3		ug/L		112	64 - 133	0	20
Carbon tetrachloride	0.50	U	20.0	23.2		ug/L		116	72 - 136	1	20
Chlorobenzene	0.50	U	20.0	21.3		ug/L		106	82 - 118	1	20
Chloroethane	0.50	U	20.0	16.5		ug/L		83	60 - 138	1	20
Chloroform	0.50	U	20.0	22.5		ug/L		113	79 - 124	1	20
Chloromethane	0.50	U	20.0	15.1		ug/L		75	50 - 139	1	20
cis-1,2-Dichloroethene	0.50	U	20.0	22.4		ug/L		112	78 - 123	1	20
cis-1,3-Dichloropropene	0.50	U	20.0	20.2		ug/L		101	75 - 124	1	20
Dibromochloromethane	0.50	U	20.0	20.4		ug/L		102	74 - 126	1	20
Dibromomethane	0.50	U	20.0	20.5		ug/L		102	79 - 123	1	20
Dichlorodifluoromethane	0.50	U	20.0	17.4		ug/L		87	32 - 152	3	20
Ethylbenzene	0.80	U	20.0	22.1		ug/L		110	79 - 121	1	20
Hexachlorobutadiene	4.0	U	20.0	18.0		ug/L		90	66 - 134	1	20
Isopropylbenzene	0.50	U	20.0	22.4		ug/L		112	72 - 131	0	20
m&p-Xylene	2.0	U	40.0	44.4		ug/L		111	80 - 121	0	20
Methyl tertiary butyl ether	0.50	U	20.0	19.8		ug/L		99	71 - 124	3	20
Methylene Chloride	0.50	U	20.0	21.8		ug/L		109	74 - 124	0	20
Naphthalene	2.0	U	20.0	20.1		ug/L		101	61 - 128	1	20
n-Butylbenzene	0.50	U	20.0	22.3		ug/L		111	75 - 128	1	20
N-Propylbenzene	0.50	U	20.0	22.6		ug/L		113	76 - 126	1	20
o-Xylene	0.80	U	20.0	21.5		ug/L		108	78 - 122	2	20
p-Isopropyltoluene	0.50	U	20.0	22.3		ug/L		112	77 - 127	0	20
sec-Butylbenzene	0.50	U	20.0	22.3		ug/L		112	77 - 126	2	20
Styrene	0.50	U	20.0	21.5		ug/L		108	78 - 123	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16534-15 MSD

Matrix: Water

Analysis Batch: 55702

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butylbenzene	1.0	U	20.0	21.3		ug/L		106	78 - 124	1	20
Tetrachloroethene	0.50	U Q	20.0	21.0		ug/L		105	74 - 129	0	20
Toluene	0.61	J	20.0	22.2		ug/L		108	80 - 121	1	20
trans-1,2-Dichloroethene	0.50	U	20.0	21.6		ug/L		108	75 - 124	1	20
trans-1,3-Dichloropropene	0.50	U	20.0	20.7		ug/L		104	73 - 127	2	20
Trichloroethene	0.50	U	20.0	21.8		ug/L		109	79 - 123	1	20
Trichlorofluoromethane	0.50	U	20.0	20.6		ug/L		103	65 - 141	2	20
Vinyl chloride	0.50	U	20.0	17.3		ug/L		87	58 - 137	3	20
Xylenes, Total	2.0	U	60.0	65.9		ug/L		110	79 - 121	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	117		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-16534-15 MSD

Matrix: Water

Analysis Batch: 55702

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	2.0	U	100	108		ug/L		108	54 - 146	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 13:12	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 13:12	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 13:12	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 13:12	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/21/20 13:12	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 13:12	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 13:12	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 13:12	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 13:12	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 13:12	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 13:12	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 13:12	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/21/20 13:12	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/21/20 13:12	1
Dibromofluoromethane (Surr)	97		80 - 119		10/21/20 13:12	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 13:12	1

Lab Sample ID: LCS 410-56668/6

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.6		ug/L		98	78 - 124
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	74 - 131
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	71 - 121
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125
1,1-Dichloroethene	20.0	20.7		ug/L		103	71 - 131
1,1-Dichloropropene	20.0	20.2		ug/L		101	79 - 125
1,2,3-Trichlorobenzene	20.0	21.8		ug/L		109	69 - 129
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	20.0	22.3		ug/L		111	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/L		98	62 - 128
1,2-Dibromoethane	20.0	20.4		ug/L		102	77 - 121
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	20.7		ug/L		103	73 - 128
1,2-Dichloropropane	20.0	20.8		ug/L		104	78 - 122
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		112	75 - 124
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119
1,3-Dichloropropane	20.0	20.2		ug/L		101	80 - 119
1,4-Dichlorobenzene	20.0	20.9		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	22.1		ug/L		111	60 - 139
2-Butanone	150	135		ug/L		90	56 - 143
2-Chlorotoluene	20.0	21.0		ug/L		105	79 - 122
2-Hexanone	100	98.4		ug/L		98	57 - 139
4-Chlorotoluene	20.0	20.9		ug/L		105	78 - 122
4-Methyl-2-pentanone	100	98.2		ug/L		98	67 - 130
Acetone	150	129		ug/L		86	39 - 160
Acrolein	150	120		ug/L		80	39 - 155
Acrylonitrile	100	86.3		ug/L		86	63 - 135
Benzene	20.0	20.1		ug/L		100	42 - 138

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-56668/6

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	20.0	20.8		ug/L		104	80 - 120
Bromochloromethane	20.0	19.1		ug/L		96	78 - 123
Bromodichloromethane	20.0	19.7		ug/L		99	79 - 125
Bromoform	20.0	15.4		ug/L		77	66 - 130
Bromomethane	20.0	17.6		ug/L		88	53 - 141
Carbon disulfide	20.0	15.7		ug/L		78	64 - 133
Carbon tetrachloride	20.0	18.8		ug/L		94	72 - 136
Chlorobenzene	20.0	20.2		ug/L		101	82 - 118
Chloroethane	20.0	17.7		ug/L		88	60 - 138
Chloroform	20.0	20.6		ug/L		103	79 - 124
Chloromethane	20.0	18.2		ug/L		91	50 - 139
cis-1,2-Dichloroethene	20.0	21.5		ug/L		108	78 - 123
cis-1,3-Dichloropropene	20.0	20.9		ug/L		104	75 - 124
Dibromochloromethane	20.0	18.2		ug/L		91	74 - 126
Dibromomethane	20.0	20.1		ug/L		101	79 - 123
Dichlorodifluoromethane	20.0	13.9		ug/L		69	32 - 152
Ethylbenzene	20.0	21.1		ug/L		106	79 - 121
Hexachlorobutadiene	20.0	20.7		ug/L		104	66 - 134
Isopropylbenzene	20.0	21.6		ug/L		108	72 - 131
m&p-Xylene	40.0	42.2		ug/L		106	80 - 121
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124
Methylene Chloride	20.0	20.3		ug/L		101	74 - 124
Naphthalene	20.0	22.1		ug/L		110	61 - 128
n-Butylbenzene	20.0	22.0		ug/L		110	75 - 128
N-Propylbenzene	20.0	22.4		ug/L		112	76 - 126
o-Xylene	20.0	21.2		ug/L		106	78 - 122
p-Isopropyltoluene	20.0	22.8		ug/L		114	77 - 127
sec-Butylbenzene	20.0	22.5		ug/L		112	77 - 126
Styrene	20.0	21.9		ug/L		110	78 - 123
tert-Butylbenzene	20.0	21.5		ug/L		107	78 - 124
Tetrachloroethene	20.0	17.8		ug/L		89	74 - 129
Toluene	20.0	20.4		ug/L		102	80 - 121
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	21.2		ug/L		106	73 - 127
Trichloroethene	20.0	20.2		ug/L		101	79 - 123
Trichlorofluoromethane	20.0	18.5		ug/L		93	65 - 141
Vinyl chloride	20.0	19.1		ug/L		95	58 - 137
Xylenes, Total	60.0	63.4		ug/L		106	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-56668/9

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	99.8		ug/L		100	54 - 146
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	97		81 - 118				
4-Bromofluorobenzene (Surr)	100		85 - 114				
Dibromofluoromethane (Surr)	95		80 - 119				
Toluene-d8 (Surr)	100		89 - 112				

Lab Sample ID: LCSD 410-56668/10

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	99.9		ug/L		100	54 - 146	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		81 - 118						
4-Bromofluorobenzene (Surr)	100		85 - 114						
Dibromofluoromethane (Surr)	96		80 - 119						
Toluene-d8 (Surr)	100		89 - 112						

Lab Sample ID: LCSD 410-56668/8

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124	1	20
1,1,1-Trichloroethane	20.0	20.1		ug/L		101	74 - 131	0	20
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	71 - 121	3	20
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	80 - 119	2	20
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125	0	20
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131	1	20
1,1-Dichloropropene	20.0	20.1		ug/L		100	79 - 125	1	20
1,2,3-Trichlorobenzene	20.0	21.6		ug/L		108	69 - 129	1	20
1,2,3-Trichloropropane	20.0	19.9		ug/L		100	73 - 122	0	20
1,2,4-Trichlorobenzene	20.0	22.1		ug/L		110	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	22.2		ug/L		111	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		96	62 - 128	2	20
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 121	2	20
1,2-Dichlorobenzene	20.0	20.9		ug/L		105	80 - 119	2	20
1,2-Dichloroethane	20.0	20.6		ug/L		103	73 - 128	0	20
1,2-Dichloropropane	20.0	20.7		ug/L		103	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		111	75 - 124	0	20
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119	0	20
1,3-Dichloropropane	20.0	19.9		ug/L		99	80 - 119	2	20
1,4-Dichlorobenzene	20.0	20.9		ug/L		105	79 - 118	0	20
2,2-Dichloropropane	20.0	22.1		ug/L		111	60 - 139	0	20
2-Butanone	150	133		ug/L		89	56 - 143	2	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-56668/8

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	21.1		ug/L		105	79 - 122	0	20
2-Hexanone	100	97.5		ug/L		98	57 - 139	1	20
4-Chlorotoluene	20.0	21.0		ug/L		105	78 - 122	0	20
4-Methyl-2-pentanone	100	96.8		ug/L		97	67 - 130	1	20
Acetone	150	128		ug/L		86	39 - 160	0	20
Acrolein	150	119		ug/L		80	39 - 155	1	20
Acrylonitrile	100	85.5		ug/L		85	63 - 135	1	20
Benzene	20.0	20.0		ug/L		100	42 - 138	0	20
Bromobenzene	20.0	20.7		ug/L		104	80 - 120	0	20
Bromochloromethane	20.0	18.8		ug/L		94	78 - 123	2	20
Bromodichloromethane	20.0	19.8		ug/L		99	79 - 125	0	20
Bromoform	20.0	15.1		ug/L		75	66 - 130	2	20
Bromomethane	20.0	15.6		ug/L		78	53 - 141	12	20
Carbon disulfide	20.0	15.7		ug/L		79	64 - 133	0	20
Carbon tetrachloride	20.0	18.9		ug/L		95	72 - 136	0	20
Chlorobenzene	20.0	20.0		ug/L		100	82 - 118	1	20
Chloroethane	20.0	17.2		ug/L		86	60 - 138	3	20
Chloroform	20.0	20.4		ug/L		102	79 - 124	1	20
Chloromethane	20.0	17.4		ug/L		87	50 - 139	4	20
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	20.6		ug/L		103	75 - 124	1	20
Dibromochloromethane	20.0	18.0		ug/L		90	74 - 126	1	20
Dibromomethane	20.0	19.9		ug/L		100	79 - 123	1	20
Dichlorodifluoromethane	20.0	13.9		ug/L		69	32 - 152	0	20
Ethylbenzene	20.0	21.0		ug/L		105	79 - 121	1	20
Hexachlorobutadiene	20.0	20.7		ug/L		104	66 - 134	0	20
Isopropylbenzene	20.0	21.5		ug/L		108	72 - 131	1	20
m&p-Xylene	40.0	42.0		ug/L		105	80 - 121	1	20
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124	0	20
Methylene Chloride	20.0	19.9		ug/L		100	74 - 124	2	20
Naphthalene	20.0	22.0		ug/L		110	61 - 128	0	20
n-Butylbenzene	20.0	22.0		ug/L		110	75 - 128	0	20
N-Propylbenzene	20.0	22.3		ug/L		111	76 - 126	0	20
o-Xylene	20.0	21.2		ug/L		106	78 - 122	0	20
p-Isopropyltoluene	20.0	22.9		ug/L		114	77 - 127	0	20
sec-Butylbenzene	20.0	22.5		ug/L		112	77 - 126	0	20
Styrene	20.0	21.6		ug/L		108	78 - 123	2	20
tert-Butylbenzene	20.0	21.1		ug/L		106	78 - 124	2	20
Tetrachloroethene	20.0	18.6		ug/L		93	74 - 129	5	20
Toluene	20.0	20.4		ug/L		102	80 - 121	0	20
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124	0	20
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	73 - 127	1	20
Trichloroethene	20.0	20.1		ug/L		100	79 - 123	0	20
Trichlorofluoromethane	20.0	18.5		ug/L		92	65 - 141	0	20
Vinyl chloride	20.0	19.1		ug/L		96	58 - 137	0	20
Xylenes, Total	60.0	63.2		ug/L		105	79 - 121	0	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-56668/8

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-55438/1-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55438

Analyte	MB	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U		0.030	0.020	0.010	ug/L		10/19/20 19:06	1
Surrogate	MB	MB		Limits		Prepared	Analyzed	Dil Fac		
1,1,2,2-Tetrachloroethane (1C)	95			46 - 136		10/17/20 00:09	10/19/20 19:06	1		
1,1,2,2-Tetrachloroethane (2C)	91			46 - 136		10/17/20 00:09	10/19/20 19:06	1		

Lab Sample ID: LCS 410-55438/2-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55438

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene Dibromide (1C)		0.128	0.104		ug/L		81	60 - 140		
Surrogate	LCS	LCS		Limits						
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	95			46 - 136						

Lab Sample ID: LCSD 410-55438/3-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55438

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)		0.128	0.108		ug/L		85	60 - 140	4	20
Surrogate	LCSD	LCSD		Limits						
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	102			46 - 136						

Lab Sample ID: 410-16534-15 MS

Matrix: Water

Analysis Batch: 56028

Client Sample ID: GW095-204

Prep Type: Total/NA

Prep Batch: 55438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene Dibromide (1C)	0.019	U	0.121	0.127		ug/L		105	60 - 140		

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 410-16534-15 MS

Matrix: Water

Analysis Batch: 56028

Client Sample ID: GW095-204

Prep Type: Total/NA

Prep Batch: 55438

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	107		46 - 136
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136

Lab Sample ID: 410-16534-15 MSD

Matrix: Water

Analysis Batch: 56028

Client Sample ID: GW095-204

Prep Type: Total/NA

Prep Batch: 55438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.019	U	0.123	0.136		ug/L		111	60 - 140	7	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	111		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136								

Lab Sample ID: MB 410-55443/1-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55443

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/19/20 19:56	1

Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136			10/17/20 01:12	10/19/20 19:56	1
1,1,2,2-Tetrachloroethane (2C)	90		46 - 136			10/17/20 01:12	10/19/20 19:56	1

Lab Sample ID: LCS 410-55443/2-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.0948		ug/L		74	60 - 140
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1,1,2,2-Tetrachloroethane (1C)	90		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	85		46 - 136				

Lab Sample ID: LCSD 410-55443/3-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55443

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.0958		ug/L		75	60 - 140	1	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1,1,2,2-Tetrachloroethane (1C)	93		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136						

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 410-16534-13 MS

Matrix: Water

Analysis Batch: 56028

Client Sample ID: GW216-204

Prep Type: Total/NA

Prep Batch: 55443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.019	U	0.123	0.113		ug/L		92	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136						

Lab Sample ID: 410-16534-13 MSD

Matrix: Water

Analysis Batch: 56028

Client Sample ID: GW216-204

Prep Type: Total/NA

Prep Batch: 55443

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.019	U	0.123	0.115		ug/L		93	60 - 140	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136								

Lab Sample ID: MB 410-55444/1-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55444

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/19/20 18:16	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136	10/17/20 01:40	10/19/20 18:16	1
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136	10/17/20 01:40	10/19/20 18:16	1

Lab Sample ID: LCS 410-55444/2-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.118		ug/L		92	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136				

Lab Sample ID: LCSD 410-55444/3-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.128	0.115		ug/L		90	60 - 140	2	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-55444/3-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55444

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-54576/4

Matrix: Water

Analysis Batch: 54576

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/15/20 06:13	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/15/20 06:13	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/15/20 06:13	1

Lab Sample ID: LCS 410-54576/3

Matrix: Water

Analysis Batch: 54576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.29		mg/L		97	90 - 110
Chloride	3.00	2.99		mg/L		100	90 - 110
Sulfate	7.50	7.65		mg/L		102	90 - 110

Lab Sample ID: 410-16534-6 MS

Matrix: Water

Analysis Batch: 54576

Client Sample ID: GW220-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	2.0	U	25.0	22.4	D	mg/L		90	90 - 110
Chloride	12	J1 D	10.0	19.3	J1 D	mg/L		74	90 - 110
Sulfate	29	D	25.0	53.9	D	mg/L		101	90 - 110

Lab Sample ID: 410-16534-6 DU

Matrix: Water

Analysis Batch: 54576

Client Sample ID: GW220-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromide	2.0	U	2.0	U	mg/L		NC	15
Chloride	12	J1 D	11.7	D	mg/L		3	15
Sulfate	29	D	29.9	D	mg/L		4	15

Lab Sample ID: MB 410-55045/4

Matrix: Water

Analysis Batch: 55045

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/16/20 05:07	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/16/20 05:07	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/16/20 05:07	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-55045/3

Matrix: Water

Analysis Batch: 55045

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.06		mg/L		94	90 - 110
Chloride	3.00	2.85		mg/L		95	90 - 110
Sulfate	7.50	7.15		mg/L		95	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-53441/1-A

Matrix: Water

Analysis Batch: 54661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53441

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 20:53	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 20:53	1

Lab Sample ID: LCS 410-53441/2-A

Matrix: Water

Analysis Batch: 54661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.451		mg/L		112	87 - 115
Manganese	0.0200	0.0228		mg/L		114	90 - 114

Lab Sample ID: MB 410-53442/1-A

Matrix: Water

Analysis Batch: 53797

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53442

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/13/20 10:05	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/13/20 10:05	1

Lab Sample ID: LCS 410-53442/2-A

Matrix: Water

Analysis Batch: 53797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.418		mg/L		104	87 - 115
Manganese	0.0200	0.0234	Q	mg/L		117	90 - 114

Lab Sample ID: MB 410-54268/1-A

Matrix: Water

Analysis Batch: 55305

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54268

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 12:26	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 12:26	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-54268/2-A

Matrix: Water

Analysis Batch: 55305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.433		mg/L		108	87 - 115
Manganese	0.0200	0.0207		mg/L		104	90 - 114

Lab Sample ID: MB 410-52601/1-A

Matrix: Water

Analysis Batch: 53406

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 52601

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/12/20 15:01	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/12/20 15:01	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/12/20 15:01	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/12/20 15:01	1

Lab Sample ID: LCS 410-52601/2-A

Matrix: Water

Analysis Batch: 53406

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 52601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.403		mg/L		101	87 - 113
Magnesium	0.200	0.202		mg/L		101	85 - 113
Potassium	5.60	5.59		mg/L		100	86 - 114
Sodium	2.00	1.99		mg/L		100	87 - 115

Lab Sample ID: 410-16534-1 MS

Matrix: Water

Analysis Batch: 53406

Client Sample ID: GW225-204

Prep Type: Total Recoverable

Prep Batch: 52601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	56	J1	0.400	57.0	4	mg/L		255	87 - 113
Magnesium	7.8	J1	0.200	8.07	4	mg/L		138	85 - 113
Potassium	2.7		5.60	8.29		mg/L		100	86 - 114
Sodium	26	J1	2.00	27.7	4	mg/L		98	87 - 115

Lab Sample ID: 410-16534-1 MSD

Matrix: Water

Analysis Batch: 53406

Client Sample ID: GW225-204

Prep Type: Total Recoverable

Prep Batch: 52601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	56	J1	0.400	57.5	4	mg/L		370	87 - 113	1	20
Magnesium	7.8	J1	0.200	8.10	4	mg/L		155	85 - 113	0	20
Potassium	2.7		5.60	8.22		mg/L		98	86 - 114	1	20
Sodium	26	J1	2.00	27.9	4	mg/L		109	87 - 115	1	20

Lab Sample ID: 410-16534-1 DU

Matrix: Water

Analysis Batch: 53406

Client Sample ID: GW225-204

Prep Type: Total Recoverable

Prep Batch: 52601

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	56	J1	57.9		mg/L		3	20
Magnesium	7.8	J1	8.04		mg/L		3	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-16534-1 DU

Matrix: Water

Analysis Batch: 53406

Client Sample ID: GW225-204

Prep Type: Total Recoverable

Prep Batch: 52601

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Potassium	2.7		2.85		mg/L		5	20
Sodium	26	J1	26.3		mg/L		2	20

Lab Sample ID: MB 410-53748/1-A

Matrix: Water

Analysis Batch: 55263

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/16/20 10:08	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/16/20 10:08	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/16/20 10:08	1

Lab Sample ID: MB 410-53748/1-A

Matrix: Water

Analysis Batch: 55664

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/18/20 11:22	1

Lab Sample ID: LCS 410-53748/2-A

Matrix: Water

Analysis Batch: 55263

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.402		mg/L		100	87 - 113
Magnesium	0.200	0.198		mg/L		99	85 - 113
Sodium	2.00	2.13		mg/L		106	87 - 115

Lab Sample ID: LCS 410-53748/2-A

Matrix: Water

Analysis Batch: 55664

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.88		mg/L		105	86 - 114

Lab Sample ID: MB 410-53754/1-A

Matrix: Water

Analysis Batch: 54323

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53754

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/14/20 12:00	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/14/20 12:00	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/14/20 12:00	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/14/20 12:00	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-53754/2-A

Matrix: Water

Analysis Batch: 54323

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.412		mg/L		103	87 - 113
Magnesium	0.200	0.205		mg/L		102	85 - 113
Potassium	5.60	5.76		mg/L		103	86 - 114
Sodium	2.00	2.03		mg/L		101	87 - 115

Lab Sample ID: 410-16534-13 MS

Matrix: Water

Analysis Batch: 53797

Client Sample ID: GW216-204

Prep Type: Dissolved

Prep Batch: 53442

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U J1	0.402	0.437		mg/L		109	87 - 115
Manganese	0.0052	U Q J1	0.0200	0.0240	J1	mg/L		120	90 - 114

Lab Sample ID: 410-16534-13 MSD

Matrix: Water

Analysis Batch: 53797

Client Sample ID: GW216-204

Prep Type: Dissolved

Prep Batch: 53442

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.10	U J1	0.402	0.434		mg/L		108	87 - 115	1	20
Manganese	0.0052	U Q J1	0.0200	0.0237	J1	mg/L		119	90 - 114	1	20

Lab Sample ID: 410-16534-13 DU

Matrix: Water

Analysis Batch: 53797

Client Sample ID: GW216-204

Prep Type: Dissolved

Prep Batch: 53442

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.10	U J1	0.10	U	mg/L		NC	20
Manganese	0.0052	U Q J1	0.0052	U Q	mg/L		NC	20

Lab Sample ID: 410-16534-15 MS

Matrix: Water

Analysis Batch: 55305

Client Sample ID: GW095-204

Prep Type: Dissolved

Prep Batch: 54268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U J1	0.402	0.372		mg/L		92	87 - 115
Manganese	0.026	J1	0.0200	0.0475		mg/L		105	90 - 114

Lab Sample ID: 410-16534-15 MSD

Matrix: Water

Analysis Batch: 55305

Client Sample ID: GW095-204

Prep Type: Dissolved

Prep Batch: 54268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.10	U J1	0.402	0.384		mg/L		95	87 - 115	3	20
Manganese	0.026	J1	0.0200	0.0476		mg/L		106	90 - 114	0	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-16534-15 DU

Matrix: Water

Analysis Batch: 55305

Client Sample ID: GW095-204

Prep Type: Dissolved

Prep Batch: 54268

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.10	U J1	0.10	U	mg/L		NC	20
Manganese	0.026	J1	0.0269		mg/L		2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-53283/1-A

Matrix: Water

Analysis Batch: 54147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53283

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:49	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 14:49	1

Lab Sample ID: LCS 410-53283/2-A

Matrix: Water

Analysis Batch: 54147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0560		mg/L		93	84 - 116
Lead	0.0300	0.0292		mg/L		97	88 - 115

Lab Sample ID: MB 410-53284/1-A

Matrix: Water

Analysis Batch: 54852

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53284

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/15/20 12:28	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 12:28	1

Lab Sample ID: LCS 410-53284/2-A

Matrix: Water

Analysis Batch: 54852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0605		mg/L		101	84 - 116
Lead	0.0300	0.0308		mg/L		103	88 - 115

Lab Sample ID: 410-16534-13 MS

Matrix: Water

Analysis Batch: 54852

Client Sample ID: GW216-204

Prep Type: Total/NA

Prep Batch: 53284

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00068	J	0.0600	0.0612		mg/L		101	84 - 116
Lead	0.00025	U	0.0300	0.0296		mg/L		99	88 - 115

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-16534-13 MSD

Matrix: Water

Analysis Batch: 54852

Client Sample ID: GW216-204

Prep Type: Total/NA

Prep Batch: 53284

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00068	J	0.0600	0.0614		mg/L		101	84 - 116	0	20
Lead	0.00025	U	0.0300	0.0307		mg/L		102	88 - 115	4	20

Lab Sample ID: 410-16534-13 DU

Matrix: Water

Analysis Batch: 54852

Client Sample ID: GW216-204

Prep Type: Total/NA

Prep Batch: 53284

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00068	J	0.0016	U	mg/L				NC	20
Lead	0.00025	U	0.00025	U	mg/L				NC	20

Lab Sample ID: MB 410-53285/1-A

Matrix: Water

Analysis Batch: 54146

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53285

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 13:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 13:55	1

Lab Sample ID: LCS 410-53285/2-A

Matrix: Water

Analysis Batch: 54146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.120	0.110		mg/L		92	84 - 116
Lead	0.0599	0.0599		mg/L		100	88 - 115

Lab Sample ID: 410-16534-15 MS

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW095-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0016	U	0.120	0.113		mg/L		94	84 - 116
Lead	0.00025	U	0.0599	0.0601		mg/L		100	88 - 115

Lab Sample ID: 410-16534-15 MSD

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW095-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0016	U	0.120	0.112		mg/L		93	84 - 116	1	20
Lead	0.00025	U	0.0599	0.0589		mg/L		98	88 - 115	2	20

Lab Sample ID: 410-16534-15 DU

Matrix: Water

Analysis Batch: 54146

Client Sample ID: GW095-204

Prep Type: Total/NA

Prep Batch: 53285

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0016	U	0.0016	U	mg/L				NC	20
Lead	0.00025	U	0.00025	U	mg/L				NC	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-53356/34

Matrix: Water

Analysis Batch: 53356

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 23:04	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 23:04	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/09/20 23:04	1

Lab Sample ID: MB 410-53356/65

Matrix: Water

Analysis Batch: 53356

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:51	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:51	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:51	1

Lab Sample ID: LCS 410-53356/35

Matrix: Water

Analysis Batch: 53356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	170		mg/L		90	82 - 106

Lab Sample ID: LCS 410-53356/66

Matrix: Water

Analysis Batch: 53356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	171		mg/L		91	82 - 106

Lab Sample ID: 410-16534-13 MS

Matrix: Water

Analysis Batch: 53356

Client Sample ID: GW216-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	110	J1	189	208	J1	mg/L		51	82 - 106

Lab Sample ID: 410-16534-13 DU

Matrix: Water

Analysis Batch: 53356

Client Sample ID: GW216-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	110		111		mg/L		1	5
Carbonate Alkalinity as CaCO ₃	6.0	U	6.0	U	mg/L		NC	5
Total Alkalinity as CaCO ₃ to pH 4.5	110	J1	112		mg/L		0.4	5

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 410-16534-15 DU

Matrix: Water

Analysis Batch: 53356

Client Sample ID: GW095-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	120		121		mg/L		0.2	5
Carbonate Alkalinity as CaCO ₃	6.0	U	6.0	U	mg/L		NC	5
Total Alkalinity as CaCO ₃ to pH 4.5	120		121		mg/L		0.2	5

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-58574/20

Matrix: Water

Analysis Batch: 58574

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/25/20 14:14	1

Lab Sample ID: MB 410-58574/50

Matrix: Water

Analysis Batch: 58574

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/25/20 14:54	1

Lab Sample ID: LCS 410-58574/21

Matrix: Water

Analysis Batch: 58574

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.58		mg/L		103	90 - 110

Lab Sample ID: LCS 410-58574/51

Matrix: Water

Analysis Batch: 58574

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.56		mg/L		103	90 - 110

Lab Sample ID: 410-16534-11 MS

Matrix: Water

Analysis Batch: 58574

Client Sample ID: GW203-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.044	J1	1.00	1.20	J1	mg/L		116	90 - 110

Lab Sample ID: 410-16534-11 DU

Matrix: Water

Analysis Batch: 58574

Client Sample ID: GW203-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.044	J1	0.0400	J	mg/L		10	10

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

GC/MS VOA

Analysis Batch: 55462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total/NA	Water	8260C DOD	
410-16534-2	GW225-604	Total/NA	Water	8260C DOD	
410-16534-3	GW227-204	Total/NA	Water	8260C DOD	
410-16534-4	TB204-19	Total/NA	Water	8260C DOD	
410-16534-5	GW219-204	Total/NA	Water	8260C DOD	
410-16534-6	GW220-204	Total/NA	Water	8260C DOD	
410-16534-7	GW221-204	Total/NA	Water	8260C DOD	
410-16534-8	TB204-20	Total/NA	Water	8260C DOD	
410-16534-9	GW201-204	Total/NA	Water	8260C DOD	
410-16534-10	GW202-204	Total/NA	Water	8260C DOD	
410-16534-11	GW203-204	Total/NA	Water	8260C DOD	
410-16534-12	TB204-16	Total/NA	Water	8260C DOD	
410-16534-13	GW216-204	Total/NA	Water	8260C DOD	
410-16534-14	TB204-17	Total/NA	Water	8260C DOD	
410-16534-16	TB204-22	Total/NA	Water	8260C DOD	
410-16534-17	GW084-204	Total/NA	Water	8260C DOD	
410-16534-18	GW096-204	Total/NA	Water	8260C DOD	
410-16534-19	GW096-604	Total/NA	Water	8260C DOD	
410-16534-20	TB204-21	Total/NA	Water	8260C DOD	
MB 410-55462/9	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-55462/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-55462/7	Lab Control Sample	Total/NA	Water	8260C DOD	
410-16534-13 MS	GW216-204	Total/NA	Water	8260C DOD	
410-16534-13 MS	GW216-204	Total/NA	Water	8260C DOD	
410-16534-13 MSD	GW216-204	Total/NA	Water	8260C DOD	
410-16534-13 MSD	GW216-204	Total/NA	Water	8260C DOD	

Analysis Batch: 55702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-21	GW217-204	Total/NA	Water	8260C DOD	
410-16534-22	GW218-204	Total/NA	Water	8260C DOD	
410-16534-23	GW226-204	Total/NA	Water	8260C DOD	
410-16534-24	TB204-18	Total/NA	Water	8260C DOD	
MB 410-55702/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-55702/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-55702/6	Lab Control Sample	Total/NA	Water	8260C DOD	
410-16534-15 MS	GW095-204	Total/NA	Water	8260C DOD	
410-16534-15 MS	GW095-204	Total/NA	Water	8260C DOD	
410-16534-15 MSD	GW095-204	Total/NA	Water	8260C DOD	
410-16534-15 MSD	GW095-204	Total/NA	Water	8260C DOD	

Analysis Batch: 56668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-15	GW095-204	Total/NA	Water	8260C DOD	
MB 410-56668/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-56668/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-56668/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-56668/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-56668/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

GC Semi VOA

Prep Batch: 55438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-15	GW095-204	Total/NA	Water	8011	
410-16534-16	TB204-22	Total/NA	Water	8011	
410-16534-18	GW096-204	Total/NA	Water	8011	
410-16534-19	GW096-604	Total/NA	Water	8011	
410-16534-20	TB204-21	Total/NA	Water	8011	
410-16534-21	GW217-204	Total/NA	Water	8011	
410-16534-22	GW218-204	Total/NA	Water	8011	
410-16534-23	GW226-204	Total/NA	Water	8011	
MB 410-55438/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55438/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55438/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-16534-15 MS	GW095-204	Total/NA	Water	8011	
410-16534-15 MSD	GW095-204	Total/NA	Water	8011	

Prep Batch: 55443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total/NA	Water	8011	
410-16534-2	GW225-604	Total/NA	Water	8011	
410-16534-3	GW227-204	Total/NA	Water	8011	
410-16534-4	TB204-19	Total/NA	Water	8011	
410-16534-5	GW219-204	Total/NA	Water	8011	
410-16534-6	GW220-204	Total/NA	Water	8011	
410-16534-7	GW221-204	Total/NA	Water	8011	
410-16534-8	TB204-20	Total/NA	Water	8011	
410-16534-9	GW201-204	Total/NA	Water	8011	
410-16534-10	GW202-204	Total/NA	Water	8011	
410-16534-11	GW203-204	Total/NA	Water	8011	
410-16534-12	TB204-16	Total/NA	Water	8011	
410-16534-13	GW216-204	Total/NA	Water	8011	
410-16534-14	TB204-17	Total/NA	Water	8011	
410-16534-24	TB204-18	Total/NA	Water	8011	
MB 410-55443/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55443/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55443/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-16534-13 MS	GW216-204	Total/NA	Water	8011	
410-16534-13 MSD	GW216-204	Total/NA	Water	8011	

Prep Batch: 55444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-17	GW084-204	Total/NA	Water	8011	
MB 410-55444/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55444/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55444/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 56028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total/NA	Water	8011	55443
410-16534-2	GW225-604	Total/NA	Water	8011	55443
410-16534-3	GW227-204	Total/NA	Water	8011	55443
410-16534-4	TB204-19	Total/NA	Water	8011	55443
410-16534-5	GW219-204	Total/NA	Water	8011	55443

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

GC Semi VOA (Continued)

Analysis Batch: 56028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-6	GW220-204	Total/NA	Water	8011	55443
410-16534-7	GW221-204	Total/NA	Water	8011	55443
410-16534-8	TB204-20	Total/NA	Water	8011	55443
410-16534-9	GW201-204	Total/NA	Water	8011	55443
410-16534-10	GW202-204	Total/NA	Water	8011	55443
410-16534-11	GW203-204	Total/NA	Water	8011	55443
410-16534-12	TB204-16	Total/NA	Water	8011	55443
410-16534-13	GW216-204	Total/NA	Water	8011	55443
410-16534-14	TB204-17	Total/NA	Water	8011	55443
410-16534-15	GW095-204	Total/NA	Water	8011	55438
410-16534-16	TB204-22	Total/NA	Water	8011	55438
410-16534-17	GW084-204	Total/NA	Water	8011	55444
410-16534-18	GW096-204	Total/NA	Water	8011	55438
410-16534-19	GW096-604	Total/NA	Water	8011	55438
410-16534-20	TB204-21	Total/NA	Water	8011	55438
410-16534-21	GW217-204	Total/NA	Water	8011	55438
410-16534-22	GW218-204	Total/NA	Water	8011	55438
410-16534-23	GW226-204	Total/NA	Water	8011	55438
410-16534-24	TB204-18	Total/NA	Water	8011	55443
MB 410-55438/1-A	Method Blank	Total/NA	Water	8011	55438
MB 410-55443/1-A	Method Blank	Total/NA	Water	8011	55443
MB 410-55444/1-A	Method Blank	Total/NA	Water	8011	55444
LCS 410-55438/2-A	Lab Control Sample	Total/NA	Water	8011	55438
LCS 410-55443/2-A	Lab Control Sample	Total/NA	Water	8011	55443
LCS 410-55444/2-A	Lab Control Sample	Total/NA	Water	8011	55444
LCSD 410-55438/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55438
LCSD 410-55443/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55443
LCSD 410-55444/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55444
410-16534-13 MS	GW216-204	Total/NA	Water	8011	55443
410-16534-13 MSD	GW216-204	Total/NA	Water	8011	55443
410-16534-15 MS	GW095-204	Total/NA	Water	8011	55438
410-16534-15 MSD	GW095-204	Total/NA	Water	8011	55438

HPLC/IC

Analysis Batch: 54576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-1	GW225-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-2	GW225-604	Total/NA	Water	EPA 300.0 R2.1	
410-16534-2	GW225-604	Total/NA	Water	EPA 300.0 R2.1	
410-16534-3	GW227-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-5	GW219-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-6	GW220-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-7	GW221-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-9	GW201-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-9	GW201-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-10	GW202-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-11	GW203-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-13	GW216-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-15	GW095-204	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

HPLC/IC (Continued)

Analysis Batch: 54576 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-15	GW095-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-17	GW084-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-18	GW096-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-19	GW096-604	Total/NA	Water	EPA 300.0 R2.1	
MB 410-54576/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-54576/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-16534-6 MS	GW220-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-6 DU	GW220-204	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 55045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-21	GW217-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-21	GW217-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-22	GW218-204	Total/NA	Water	EPA 300.0 R2.1	
410-16534-23	GW226-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-55045/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55045/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 52601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total Recoverable	Water	3005A	
MB 410-52601/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-52601/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-16534-1 MS	GW225-204	Total Recoverable	Water	3005A	
410-16534-1 MSD	GW225-204	Total Recoverable	Water	3005A	
410-16534-1 DU	GW225-204	Total Recoverable	Water	3005A	

Prep Batch: 53283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total/NA	Water	3020A	
410-16534-2	GW225-604	Total/NA	Water	3020A	
410-16534-3	GW227-204	Total/NA	Water	3020A	
410-16534-5	GW219-204	Total/NA	Water	3020A	
410-16534-6	GW220-204	Total/NA	Water	3020A	
410-16534-7	GW221-204	Total/NA	Water	3020A	
410-16534-9	GW201-204	Total/NA	Water	3020A	
MB 410-53283/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53283/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 53284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-10	GW202-204	Total/NA	Water	3020A	
410-16534-11	GW203-204	Total/NA	Water	3020A	
410-16534-13	GW216-204	Total/NA	Water	3020A	
410-16534-17	GW084-204	Total/NA	Water	3020A	
410-16534-18	GW096-204	Total/NA	Water	3020A	
410-16534-19	GW096-604	Total/NA	Water	3020A	
410-16534-21	GW217-204	Total/NA	Water	3020A	
410-16534-22	GW218-204	Total/NA	Water	3020A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Metals (Continued)

Prep Batch: 53284 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-23	GW226-204	Total/NA	Water	3020A	
MB 410-53284/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53284/2-A	Lab Control Sample	Total/NA	Water	3020A	
410-16534-13 MS	GW216-204	Total/NA	Water	3020A	
410-16534-13 MSD	GW216-204	Total/NA	Water	3020A	
410-16534-13 DU	GW216-204	Total/NA	Water	3020A	

Prep Batch: 53285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-15	GW095-204	Total/NA	Water	3020A	
MB 410-53285/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53285/2-A	Lab Control Sample	Total/NA	Water	3020A	
410-16534-15 MS	GW095-204	Total/NA	Water	3020A	
410-16534-15 MSD	GW095-204	Total/NA	Water	3020A	
410-16534-15 DU	GW095-204	Total/NA	Water	3020A	

Analysis Batch: 53406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total Recoverable	Water	6010C	52601
MB 410-52601/1-A	Method Blank	Total Recoverable	Water	6010C	52601
LCS 410-52601/2-A	Lab Control Sample	Total Recoverable	Water	6010C	52601
410-16534-1 MS	GW225-204	Total Recoverable	Water	6010C	52601
410-16534-1 MSD	GW225-204	Total Recoverable	Water	6010C	52601
410-16534-1 DU	GW225-204	Total Recoverable	Water	6010C	52601

Prep Batch: 53441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Dissolved	Water	Non-Digest Prep	
410-16534-2	GW225-604	Dissolved	Water	Non-Digest Prep	
410-16534-3	GW227-204	Dissolved	Water	Non-Digest Prep	
410-16534-5	GW219-204	Dissolved	Water	Non-Digest Prep	
410-16534-6	GW220-204	Dissolved	Water	Non-Digest Prep	
410-16534-7	GW221-204	Dissolved	Water	Non-Digest Prep	
410-16534-9	GW201-204	Dissolved	Water	Non-Digest Prep	
MB 410-53441/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-53441/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 53442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-10	GW202-204	Dissolved	Water	Non-Digest Prep	
410-16534-11	GW203-204	Dissolved	Water	Non-Digest Prep	
410-16534-13	GW216-204	Dissolved	Water	Non-Digest Prep	
410-16534-17	GW084-204	Dissolved	Water	Non-Digest Prep	
410-16534-18	GW096-204	Dissolved	Water	Non-Digest Prep	
410-16534-19	GW096-604	Dissolved	Water	Non-Digest Prep	
410-16534-21	GW217-204	Dissolved	Water	Non-Digest Prep	
410-16534-22	GW218-204	Dissolved	Water	Non-Digest Prep	
410-16534-23	GW226-204	Dissolved	Water	Non-Digest Prep	
MB 410-53442/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-53442/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-16534-13 MS	GW216-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Metals (Continued)

Prep Batch: 53442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-13 MSD	GW216-204	Dissolved	Water	Non-Digest Prep	
410-16534-13 DU	GW216-204	Dissolved	Water	Non-Digest Prep	

Prep Batch: 53748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-2	GW225-604	Total Recoverable	Water	3005A	
410-16534-3	GW227-204	Total Recoverable	Water	3005A	
410-16534-5	GW219-204	Total Recoverable	Water	3005A	
410-16534-6	GW220-204	Total Recoverable	Water	3005A	
410-16534-7	GW221-204	Total Recoverable	Water	3005A	
410-16534-9	GW201-204	Total Recoverable	Water	3005A	
410-16534-10	GW202-204	Total Recoverable	Water	3005A	
410-16534-11	GW203-204	Total Recoverable	Water	3005A	
410-16534-13	GW216-204	Total Recoverable	Water	3005A	
410-16534-15	GW095-204	Total Recoverable	Water	3005A	
410-16534-17	GW084-204	Total Recoverable	Water	3005A	
410-16534-18	GW096-204	Total Recoverable	Water	3005A	
410-16534-19	GW096-604	Total Recoverable	Water	3005A	
410-16534-21	GW217-204	Total Recoverable	Water	3005A	
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 53754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-22	GW218-204	Total Recoverable	Water	3005A	
410-16534-23	GW226-204	Total Recoverable	Water	3005A	
MB 410-53754/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53754/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 53797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-10	GW202-204	Dissolved	Water	6010C	53442
410-16534-11	GW203-204	Dissolved	Water	6010C	53442
410-16534-13	GW216-204	Dissolved	Water	6010C	53442
410-16534-17	GW084-204	Dissolved	Water	6010C	53442
410-16534-18	GW096-204	Dissolved	Water	6010C	53442
410-16534-19	GW096-604	Dissolved	Water	6010C	53442
410-16534-21	GW217-204	Dissolved	Water	6010C	53442
410-16534-22	GW218-204	Dissolved	Water	6010C	53442
410-16534-23	GW226-204	Dissolved	Water	6010C	53442
MB 410-53442/1-A	Method Blank	Total/NA	Water	6010C	53442
LCS 410-53442/2-A	Lab Control Sample	Total/NA	Water	6010C	53442
410-16534-13 MS	GW216-204	Dissolved	Water	6010C	53442
410-16534-13 MSD	GW216-204	Dissolved	Water	6010C	53442
410-16534-13 DU	GW216-204	Dissolved	Water	6010C	53442

Analysis Batch: 54146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-15	GW095-204	Total/NA	Water	6020A	53285
MB 410-53285/1-A	Method Blank	Total/NA	Water	6020A	53285
LCS 410-53285/2-A	Lab Control Sample	Total/NA	Water	6020A	53285

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Metals (Continued)

Analysis Batch: 54146 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-15 MS	GW095-204	Total/NA	Water	6020A	53285
410-16534-15 MSD	GW095-204	Total/NA	Water	6020A	53285
410-16534-15 DU	GW095-204	Total/NA	Water	6020A	53285

Analysis Batch: 54147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total/NA	Water	6020A	53283
410-16534-2	GW225-604	Total/NA	Water	6020A	53283
410-16534-3	GW227-204	Total/NA	Water	6020A	53283
410-16534-5	GW219-204	Total/NA	Water	6020A	53283
410-16534-6	GW220-204	Total/NA	Water	6020A	53283
410-16534-7	GW221-204	Total/NA	Water	6020A	53283
410-16534-9	GW201-204	Total/NA	Water	6020A	53283
MB 410-53283/1-A	Method Blank	Total/NA	Water	6020A	53283
LCS 410-53283/2-A	Lab Control Sample	Total/NA	Water	6020A	53283

Prep Batch: 54268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-15	GW095-204	Dissolved	Water	Non-Digest Prep	
MB 410-54268/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54268/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-16534-15 MS	GW095-204	Dissolved	Water	Non-Digest Prep	
410-16534-15 MSD	GW095-204	Dissolved	Water	Non-Digest Prep	
410-16534-15 DU	GW095-204	Dissolved	Water	Non-Digest Prep	

Analysis Batch: 54323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-22	GW218-204	Total Recoverable	Water	6010C	53754
410-16534-23	GW226-204	Total Recoverable	Water	6010C	53754
MB 410-53754/1-A	Method Blank	Total Recoverable	Water	6010C	53754
LCS 410-53754/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53754

Analysis Batch: 54661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Dissolved	Water	6010C	53441
410-16534-2	GW225-604	Dissolved	Water	6010C	53441
410-16534-3	GW227-204	Dissolved	Water	6010C	53441
410-16534-5	GW219-204	Dissolved	Water	6010C	53441
410-16534-6	GW220-204	Dissolved	Water	6010C	53441
410-16534-7	GW221-204	Dissolved	Water	6010C	53441
410-16534-9	GW201-204	Dissolved	Water	6010C	53441
MB 410-53441/1-A	Method Blank	Total/NA	Water	6010C	53441
LCS 410-53441/2-A	Lab Control Sample	Total/NA	Water	6010C	53441

Analysis Batch: 54852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-10	GW202-204	Total/NA	Water	6020A	53284
410-16534-11	GW203-204	Total/NA	Water	6020A	53284
410-16534-13	GW216-204	Total/NA	Water	6020A	53284
410-16534-17	GW084-204	Total/NA	Water	6020A	53284
410-16534-18	GW096-204	Total/NA	Water	6020A	53284

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Metals (Continued)

Analysis Batch: 54852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-19	GW096-604	Total/NA	Water	6020A	53284
410-16534-21	GW217-204	Total/NA	Water	6020A	53284
410-16534-22	GW218-204	Total/NA	Water	6020A	53284
410-16534-23	GW226-204	Total/NA	Water	6020A	53284
MB 410-53284/1-A	Method Blank	Total/NA	Water	6020A	53284
LCS 410-53284/2-A	Lab Control Sample	Total/NA	Water	6020A	53284
410-16534-13 MS	GW216-204	Total/NA	Water	6020A	53284
410-16534-13 MSD	GW216-204	Total/NA	Water	6020A	53284
410-16534-13 DU	GW216-204	Total/NA	Water	6020A	53284

Analysis Batch: 55263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	6010C	53748
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53748

Analysis Batch: 55305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-15	GW095-204	Dissolved	Water	6010C	54268
MB 410-54268/1-A	Method Blank	Total/NA	Water	6010C	54268
LCS 410-54268/2-A	Lab Control Sample	Total/NA	Water	6010C	54268
410-16534-15 MS	GW095-204	Dissolved	Water	6010C	54268
410-16534-15 MSD	GW095-204	Dissolved	Water	6010C	54268
410-16534-15 DU	GW095-204	Dissolved	Water	6010C	54268

Analysis Batch: 55664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-2	GW225-604	Total Recoverable	Water	6010C	53748
410-16534-3	GW227-204	Total Recoverable	Water	6010C	53748
410-16534-5	GW219-204	Total Recoverable	Water	6010C	53748
410-16534-6	GW220-204	Total Recoverable	Water	6010C	53748
410-16534-7	GW221-204	Total Recoverable	Water	6010C	53748
410-16534-9	GW201-204	Total Recoverable	Water	6010C	53748
410-16534-10	GW202-204	Total Recoverable	Water	6010C	53748
410-16534-11	GW203-204	Total Recoverable	Water	6010C	53748
410-16534-13	GW216-204	Total Recoverable	Water	6010C	53748
410-16534-15	GW095-204	Total Recoverable	Water	6010C	53748
410-16534-17	GW084-204	Total Recoverable	Water	6010C	53748
410-16534-18	GW096-204	Total Recoverable	Water	6010C	53748
410-16534-19	GW096-604	Total Recoverable	Water	6010C	53748
410-16534-21	GW217-204	Total Recoverable	Water	6010C	53748
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	6010C	53748
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53748

General Chemistry

Analysis Batch: 53356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total/NA	Water	2320B-2011	
410-16534-2	GW225-604	Total/NA	Water	2320B-2011	
410-16534-3	GW227-204	Total/NA	Water	2320B-2011	
410-16534-5	GW219-204	Total/NA	Water	2320B-2011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

General Chemistry (Continued)

Analysis Batch: 53356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-6	GW220-204	Total/NA	Water	2320B-2011	
410-16534-7	GW221-204	Total/NA	Water	2320B-2011	
410-16534-9	GW201-204	Total/NA	Water	2320B-2011	
410-16534-10	GW202-204	Total/NA	Water	2320B-2011	
410-16534-11	GW203-204	Total/NA	Water	2320B-2011	
410-16534-13	GW216-204	Total/NA	Water	2320B-2011	
410-16534-15	GW095-204	Total/NA	Water	2320B-2011	
410-16534-17	GW084-204	Total/NA	Water	2320B-2011	
410-16534-18	GW096-204	Total/NA	Water	2320B-2011	
410-16534-19	GW096-604	Total/NA	Water	2320B-2011	
410-16534-21	GW217-204	Total/NA	Water	2320B-2011	
410-16534-22	GW218-204	Total/NA	Water	2320B-2011	
410-16534-23	GW226-204	Total/NA	Water	2320B-2011	
MB 410-53356/34	Method Blank	Total/NA	Water	2320B-2011	
MB 410-53356/65	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-53356/35	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-53356/66	Lab Control Sample	Total/NA	Water	2320B-2011	
410-16534-13 MS	GW216-204	Total/NA	Water	2320B-2011	
410-16534-13 DU	GW216-204	Total/NA	Water	2320B-2011	
410-16534-15 DU	GW095-204	Total/NA	Water	2320B-2011	

Analysis Batch: 58574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16534-1	GW225-204	Total/NA	Water	353.2	
410-16534-2	GW225-604	Total/NA	Water	353.2	
410-16534-3	GW227-204	Total/NA	Water	353.2	
410-16534-5	GW219-204	Total/NA	Water	353.2	
410-16534-6	GW220-204	Total/NA	Water	353.2	
410-16534-7	GW221-204	Total/NA	Water	353.2	
410-16534-9	GW201-204	Total/NA	Water	353.2	
410-16534-10	GW202-204	Total/NA	Water	353.2	
410-16534-11	GW203-204	Total/NA	Water	353.2	
410-16534-13	GW216-204	Total/NA	Water	353.2	
410-16534-15	GW095-204	Total/NA	Water	353.2	
410-16534-17	GW084-204	Total/NA	Water	353.2	
410-16534-18	GW096-204	Total/NA	Water	353.2	
410-16534-19	GW096-604	Total/NA	Water	353.2	
410-16534-21	GW217-204	Total/NA	Water	353.2	
410-16534-22	GW218-204	Total/NA	Water	353.2	
410-16534-23	GW226-204	Total/NA	Water	353.2	
MB 410-58574/20	Method Blank	Total/NA	Water	353.2	
MB 410-58574/50	Method Blank	Total/NA	Water	353.2	
LCS 410-58574/21	Lab Control Sample	Total/NA	Water	353.2	
LCS 410-58574/51	Lab Control Sample	Total/NA	Water	353.2	
410-16534-11 MS	GW203-204	Total/NA	Water	353.2	
410-16534-11 DU	GW203-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW225-204

Lab Sample ID: 410-16534-1

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 16:02	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 00:57	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 10:09	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	54576	10/15/20 10:27	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 21:23	UCIG	ELLE
Total Recoverable	Prep	3005A			52601	10/09/20 04:52	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	53406	10/12/20 15:07	UCIG	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:30	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 05:08	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:41	KGQ6	ELLE

Client Sample ID: GW225-604

Lab Sample ID: 410-16534-2

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 16:24	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 01:14	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 10:45	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	54576	10/15/20 11:03	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 22:34	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:10	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:32	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 04:52	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:42	KGQ6	ELLE

Client Sample ID: GW227-204

Lab Sample ID: 410-16534-3

Date Collected: 10/07/20 15:00

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 16:46	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 01:30	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 11:21	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 22:31	UCIG	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW227-204

Date Collected: 10/07/20 15:00

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:13	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:34	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 05:00	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:46	KGQ6	ELLE

Client Sample ID: TB204-19

Date Collected: 10/07/20 14:00

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 11:39	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 01:47	AC3T	ELLE

Client Sample ID: GW219-204

Date Collected: 10/07/20 10:05

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 17:08	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 02:04	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 11:57	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 22:27	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:16	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:35	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 02:02	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:47	KGQ6	ELLE

Client Sample ID: GW220-204

Date Collected: 10/07/20 10:30

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 17:30	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 02:21	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 13:10	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW220-204

Date Collected: 10/07/20 10:30

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 22:24	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:20	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:37	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 02:10	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:49	KGQ6	ELLE

Client Sample ID: GW221-204

Date Collected: 10/07/20 10:55

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 17:52	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 02:37	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 14:58	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 22:14	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:23	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:39	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 02:29	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:50	KGQ6	ELLE

Client Sample ID: TB204-20

Date Collected: 10/07/20 14:00

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 12:01	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 02:54	AC3T	ELLE

Client Sample ID: GW201-204

Date Collected: 10/07/20 08:25

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 18:14	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 03:11	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW201-204

Lab Sample ID: 410-16534-9

Date Collected: 10/07/20 08:25

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 15:35	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	54576	10/15/20 15:53	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 22:17	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:26	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:40	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 02:37	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:51	KGQ6	ELLE

Client Sample ID: GW202-204

Lab Sample ID: 410-16534-10

Date Collected: 10/07/20 08:50

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 18:36	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 04:01	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 16:47	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 10:34	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:29	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 12:45	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 02:44	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:53	KGQ6	ELLE

Client Sample ID: GW203-204

Lab Sample ID: 410-16534-11

Date Collected: 10/07/20 09:15

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 18:58	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 04:18	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 17:23	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 10:44	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:39	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 12:43	V5SW	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW203-204

Date Collected: 10/07/20 09:15

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 03:57	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 14:57	KGQ6	ELLE

Client Sample ID: TB204-16

Date Collected: 10/07/20 14:00

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 12:23	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 04:34	AC3T	ELLE

Client Sample ID: GW216-204

Date Collected: 10/07/20 12:25

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 13:50	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 04:51	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 18:00	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 10:11	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:42	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 12:32	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 03:07	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 15:03	KGQ6	ELLE

Client Sample ID: TB204-17

Date Collected: 10/07/20 14:00

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 12:44	K4WN	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 05:41	AC3T	ELLE

Client Sample ID: GW095-204

Date Collected: 10/07/20 13:41

Date Received: 10/08/20 10:49

Lab Sample ID: 410-16534-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 14:40	NSK7	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW095-204

Lab Sample ID: 410-16534-15

Date Collected: 10/07/20 13:41

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/19/20 21:53	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 18:36	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	54576	10/15/20 18:54	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 12:33	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:45	UPJE	ELLE
Total/NA	Prep	3020A			53285	10/12/20 10:48	UJL8	ELLE
Total/NA	Analysis	6020A		1	54146	10/13/20 13:58	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 03:31	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 15:05	KGQ6	ELLE

Client Sample ID: TB204-22

Lab Sample ID: 410-16534-16

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 13:06	K4WN	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/19/20 22:10	AC3T	ELLE

Client Sample ID: GW084-204

Lab Sample ID: 410-16534-17

Date Collected: 10/06/20 13:49

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 15:40	K4WN	ELLE
Total/NA	Prep	8011			55444	10/17/20 01:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 00:40	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 19:12	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 10:48	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:48	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 12:50	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 04:21	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 15:06	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW096-204

Lab Sample ID: 410-16534-18

Date Collected: 10/07/20 11:11

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 19:20	K4WN	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/19/20 22:27	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 20:25	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 11:04	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:51	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 12:52	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 04:05	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 15:07	KGQ6	ELLE

Client Sample ID: GW096-604

Lab Sample ID: 410-16534-19

Date Collected: 10/07/20 11:11

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 19:42	K4WN	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/19/20 22:43	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	54576	10/15/20 21:01	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 11:01	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:54	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 12:54	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 04:13	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 15:09	KGQ6	ELLE

Client Sample ID: TB204-21

Lab Sample ID: 410-16534-20

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55462	10/17/20 13:28	K4WN	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/19/20 23:00	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW217-204

Lab Sample ID: 410-16534-21

Date Collected: 10/07/20 11:55

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/19/20 00:40	TQ4J	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/19/20 23:17	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55045	10/16/20 08:33	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55045	10/16/20 08:50	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 10:58	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:58	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 12:56	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 04:44	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 15:10	KGQ6	ELLE

Client Sample ID: GW218-204

Lab Sample ID: 410-16534-22

Date Collected: 10/07/20 11:25

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/19/20 01:02	TQ4J	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/19/20 23:34	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55045	10/16/20 09:07	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 10:54	UPJE	ELLE
Total Recoverable	Prep	3005A			53754	10/13/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54323	10/14/20 12:25	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 12:58	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 04:29	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 15:11	KGQ6	ELLE

Client Sample ID: GW226-204

Lab Sample ID: 410-16534-23

Date Collected: 10/07/20 14:35

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/19/20 01:24	TQ4J	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/19/20 23:50	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55045	10/16/20 09:24	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53442	10/12/20 18:51	UJLA	ELLE
Dissolved	Analysis	6010C		1	53797	10/13/20 10:51	UPJE	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Client Sample ID: GW226-204

Lab Sample ID: 410-16534-23

Date Collected: 10/07/20 14:35

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			53754	10/13/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54323	10/14/20 12:29	UPJE	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 13:00	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 04:37	JB	ELLE
Total/NA	Analysis	353.2		1	58574	10/25/20 15:13	KGQ6	ELLE

Client Sample ID: TB204-18

Lab Sample ID: 410-16534-24

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 10:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/18/20 20:39	TQ4J	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 05:58	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

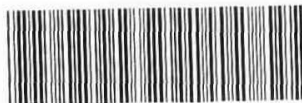
Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16534-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-16534-1	GW225-204	Water	10/07/20 14:00	10/08/20 10:49	
410-16534-2	GW225-604	Water	10/07/20 14:00	10/08/20 10:49	
410-16534-3	GW227-204	Water	10/07/20 15:00	10/08/20 10:49	
410-16534-4	TB204-19	Water	10/07/20 14:00	10/08/20 10:49	
410-16534-5	GW219-204	Water	10/07/20 10:05	10/08/20 10:49	
410-16534-6	GW220-204	Water	10/07/20 10:30	10/08/20 10:49	
410-16534-7	GW221-204	Water	10/07/20 10:55	10/08/20 10:49	
410-16534-8	TB204-20	Water	10/07/20 14:00	10/08/20 10:49	
410-16534-9	GW201-204	Water	10/07/20 08:25	10/08/20 10:49	
410-16534-10	GW202-204	Water	10/07/20 08:50	10/08/20 10:49	
410-16534-11	GW203-204	Water	10/07/20 09:15	10/08/20 10:49	
410-16534-12	TB204-16	Water	10/07/20 14:00	10/08/20 10:49	
410-16534-13	GW216-204	Water	10/07/20 12:25	10/08/20 10:49	
410-16534-14	TB204-17	Water	10/07/20 14:00	10/08/20 10:49	
410-16534-15	GW095-204	Water	10/07/20 13:41	10/08/20 10:49	
410-16534-16	TB204-22	Water	10/07/20 14:00	10/08/20 10:49	
410-16534-17	GW084-204	Water	10/06/20 13:49	10/08/20 10:49	
410-16534-18	GW096-204	Water	10/07/20 11:11	10/08/20 10:49	
410-16534-19	GW096-604	Water	10/07/20 11:11	10/08/20 10:49	
410-16534-20	TB204-21	Water	10/07/20 14:00	10/08/20 10:49	
410-16534-21	GW217-204	Water	10/07/20 11:55	10/08/20 10:49	
410-16534-22	GW218-204	Water	10/07/20 11:25	10/08/20 10:49	
410-16534-23	GW226-204	Water	10/07/20 14:35	10/08/20 10:49	
410-16534-24	TB204-18	Water	10/07/20 14:00	10/08/20 10:49	

Eurofins Lancaster Laboratories Env, LLC



410-16534 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-225-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Total Alkalinity, Carbonate, and Bicarbonate (SM23208)	Carbon Dioxide (RSK-175)	Comments	
1	GW225-204	10-07-2020	1400	10	3	—	2	1	1*	1	1	1			
2	GW225-604	10-07-2020	1400	10	3	—	2	1	1*	1	1	1			
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Beggs</i> COURIER AND SHIPPING NUMBER: FedEx <i>8155 2826 5688</i> TB204-19															
RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____ DATE: _____ TIME: _____															
Printed Name and Signature: <i>Gabeon Beggs</i> <i>Gabeon</i> <i>1007-2020 1730</i> Printed Name and Signature: _____															
Printed Name and Signature: _____ Printed Name and Signature: _____															
Printed Name and Signature: _____ Printed Name and Signature: <i>Wade Ruff</i> <i>10/8/20 1049</i> <i>KAM</i>															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-227-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamon: tiamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS				
				Total Number of Bottles	VOCs	(BTEX)	(BTEX)	EDB	(#011)	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite		(3532)	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide
1	GW227-204	10-07-2020	1500	10	3	—	2	1	1*	1	1	1								
2																				
3																				
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5																				
6																				

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **G. Begaye**

RELINQUISHED BY: **G. Begaye** DATE: **10-07-2020** TIME: **1730**

Printed Name and Signature: **G. Begaye**

Printed Name and Signature: **Nicole Kuit**

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5688**

RECEIVED BY: **Nicole Kuit** DATE: **10/8/20** TIME: **1549**

Printed Name and Signature: **Nicole Kuit**

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-19	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	BTEXN (8250C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-19	10/7/2020	1400	4	2	—	2								
2															
3															
4		JCL													
5															
Associated with: GW225-204 GW225-604 GW227-204													Note: 1x VOC has 1 bubble at ~2.5mm		
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5688											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston				10/7/2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Nicole Beitz				10/8/20		1049	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-219-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of bottles	VOCs (8260C) BTEX	BTEX (8260C) BTEX	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)			
1	GW219-204	10-07-2020	1005	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): G. Begay

COURIER AND SHIPPING NUMBER: FedEx 8155 2824 5699

RELINQUISHED BY: DATE: 10-07-2020 TIME: 1730

RECEIVED BY: DATE: 10/8/20 TIME: 1044

Printed Name and Signature: Gabe... Begay

Printed Name and Signature: Nicole Ruff

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1925		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-220-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Dissolved Fe, Mn (6020A/6010C) Total (As, Pb, Cd, Cu, Hg, Ni, Mo)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M/2320B)	Carbon Dioxide (RSK-175)	Comments	
1	GW220-204	10-07-2020	1030	10	3	1	1*	2	1	1	1				
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G-Beyene</i> RELINQUISHED BY: <i>Gulreston Beyene</i> <i>[Signature]</i> 10-07-2020 1730 Printed Name and Signature: _____ Printed Name and Signature: _____ COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5699 RECEIVED BY: <i>Nicole Ruff</i> <i>[Signature]</i> 10/8/20 1044 Printed Name and Signature: _____ Printed Name and Signature: _____															

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1425		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-221-204													
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020															
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)																	
				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																							
ANALYSIS REQUIRED (Specify number of bottles)																											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(B260C)	BTEX	(B260C)	BTEXN	EDB	(B011)	Total (As, Pb, Ca, K, Na, Mg)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(351.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide	(RSK-175)	Methane	(RSK-175)	COMMENTS		
1	GW221-204	10-07-2020	1055	10	3	—				2	1	1*	1	1	1												
2																											
3																											
4																											
5																											
6																											
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																											
SAMPLER(S): G. Begay														COURIER AND SHIPPING NUMBER: FedEx 8155 2820 5099													
RELINQUISHED BY: G. Begay														RECEIVED BY: Nicole Ruiz													
DATE: 10-07-2020														DATE: 10/8/2020													
TIME: 1730														TIME: 1044													
Printed Name and Signature: G. Begay														Printed Name and Signature: Nicole Ruiz													
Printed Name and Signature: G. Begay														Printed Name and Signature: Nicole Ruiz													
Printed Name and Signature: G. Begay														Printed Name and Signature: Nicole Ruiz													

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204- 20

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	BTEXN (8250C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204- 20	10/7/2020	1400	4	2			2							Associated with: GW 219-204 GW 220-204 GW 221-204 Note: 2 x VOC's have 1 bubble each at 2mm, and 3mm
2															
3															
4															
5		JRL													

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5699

RELINQUISHED BY: J Livingston 2/11/20 10/7/2020 1730

RECEIVED BY: Nicole Ruff 10/8/20 1044

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-201-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	(8260C) BTEXM	(8260C) BTEXM	ED8 (8011)	Total (As, Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM4220B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW201-204	10-07-2020	0825	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): G. Beyre

RELINQUISHED BY: DATE: TIME:

Printed Name and Signature: Galveston Beyre 10-07-2020 1730

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5655

RECEIVED BY: DATE: TIME:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature: Nicole Ruff 10/8/20 1040

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-202-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (50423208)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW202-204	10-07-2020	0850	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i> RELINQUISHED BY: <i>G. Begaye</i> Printed Name and Signature: <i>G. Begaye</i> Printed Name and Signature: <i>G. Begaye</i> Printed Name and Signature: <i>G. Begaye</i> COURIER AND SHIPPING NUMBER: <i>FedEx 8155 2826 5655</i> RECEIVED BY: <i>Nicole Reiff</i> Printed Name and Signature: <i>Nicole Reiff</i> Printed Name and Signature: <i>Nicole Reiff</i> Printed Name and Signature: <i>Nicole Reiff</i> DATE: <i>10-07-2020</i> TIME: <i>1730</i> DATE: <i>10/8/20</i> TIME: <i>1040</i>															

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-203-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Cu, Ni, Mn) (6011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3000)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM23208)	COMMENTS	
1	GW203-204	10-07-2020	0915	10	3	—	2	1	1*	1	1	1		 10-07-2020	
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): G. Begaye RELINQUISHED BY: G. Begaye Printed Name and Signature: G. Begaye Printed Name and Signature: G. Begaye Printed Name and Signature: G. Begaye COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5655 RECEIVED BY: Nicole Ruff Printed Name and Signature: Nicole Ruff Printed Name and Signature: Nicole Ruff Printed Name and Signature: Nicole Ruff DATE: 10-07-2020 TIME: 1730 DATE: 10/8/20 TIME: 1040															

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-TB204-16

YEAR: 2020
QUARTER: 4

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXEN (8260C)	EDB (8011)	Total As, Pb, Cu, K, Na, Mg (8010C)	Disolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (300.0)	(353.2)		Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	
1	TB204-16	10/7/2020	1400	4	2			2								
2																
3																
4																
5																

Associated with:
GW 201-204
GW 202-204
GW 203-204

Note: 1 x VOC has 1 bubble ~2mm dia.

SAMPLER(S): J Livingston

RELINQUISHED BY: DATE: TIME:

Printed Name and Signature: J Livingston DATE: 10/7/2020 TIME: 1730

Printed Name and Signature:

Printed Name and Signature:

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5655

RECEIVED BY: DATE: TIME:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature: Nicole Ruff DATE: 10/8/20 TIME: 1040

Page 133 of 145

12/18/2020 (Rev. 1)

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

F-2-493

March 2021

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-216-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA								QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	EDB	Total (As, Pb, Cd, Cr, Hg, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	COMMENTS	
1	GW216-204	10-07-2020	1225	24	9	—	6	3	3*	1	1	1	—	Please see Comments for requested MS/MSD analytes	
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe															
SAMPLER(S): <i>G. Beyaze</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5666											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Gahreston Beyaze</i>				10-07-2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: <i>Chad Wettig</i>				10/8/20		10551	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-095-204

FAX AND MAIL REPORTS/EDD TO: Tera Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

Lab PO Number: 21295

PROJECT SITE AND PHASE:
ST106/SS111

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As,Pb,Ca,K,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW095-204	10-7-2020	1341	24	9		6	3	3*	1	1	1		Please see Comments for requested MS/MSD analytes		
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please run MS/MSD on the following analytes only:
VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe

SAMPLER(S):
D. Schmeelk

Pump SN: 1807B-710

RELINQUISHED BY:
D. Schmeelk

DATE
10-7-2020

TIME
1730

COURIER AND SHIPPING NUMBER:
FedEx 8155 2826 5644

TB204-22

RECEIVED BY:
Wade Ruff

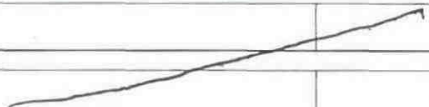
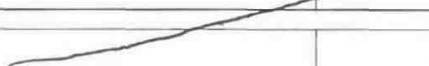
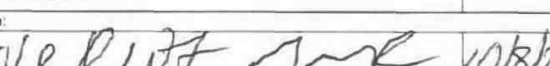
DATE
10/8/20

TIME
1054

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-22	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4	

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
				Total Number of Bottles	VOCs (2250C)	BTEX (2250C)	BTEN (2250C)	EDB (2250C)	Total As, Pb, Cd, K, Na, Mg (6011)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-22	10/7/2020	1400	4	2	—	2								
2															
3															
4															
5															

Associated with:
GW095-204

SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5644			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: J Livingston		10/7/2020	1730	Printed Name and Signature: Nicole Ruff		10/8/20	1054
Printed Name and Signature: 				Printed Name and Signature: 			
Printed Name and Signature: 				Printed Name and Signature: 			

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-084-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	(8260C) BTEXN	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Hg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM2320B) (8260C)	Methane (8260C)		
1	GW084-204	10-6-2020	1349 1353x	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 1807B-710

SAMPLER(S):
D. Schmeelk

COURIER AND SHIPPING NUMBER:
FedEx 8155 2826 5703

TB204-21

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
D. Schmeelk	10-7-2020	1730			

westey miller jmi 10/8/20 145

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-096-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5242/20B)	Carbon Dioxide (RISK-175)	Comments
1	GW096-204	10-7-2020	11:26	10	3	—	—	2	1	1*	1	1	1	—	
2	GW096-604	10-7-2020	11:11	10	3	—	—	2	1	1*	1	1	1	—	
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: <i>[Signature]</i> DATE: 10-7-2020 TIME: 1730 PRINTED NAME AND SIGNATURE: D. Schmeelk COURIER AND SHIPPING NUMBER: FedEx 8155 2820 5703 RECEIVED BY: <i>[Signature]</i> DATE: 10/8/2020 TIME: 1445 PRINTED NAME AND SIGNATURE: Wesley Miller Jr.															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-21

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXEN (8260C)	EDB (8011)	Total As, Pb, Ca, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204-21	10/7/2020	1400	4	2			2								
2																
3																
4																
5	JRL															

Associated with:
GW084-204
GW096-204
GW096-604

Note: 1-EDB has 1 bubble at ~3mm

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5703

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
J Livingston	10/7/2020	1730			
			Wesley Miller	10/8/2020	1415

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-217-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M23208)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS
1	GW217-204	10-07-2020	1155	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5677											
RELINQUISHED BY: G. Begaye				DATE: 10-07-2020		TIME: 1730		RECEIVED BY: Wesley Miller				DATE: 10/8/2020		TIME: 1455	
Printed Name and Signature: G. Begaye				Printed Name and Signature: Wesley Miller											
Printed Name and Signature: G. Begaye				Printed Name and Signature: Wesley Miller											
Printed Name and Signature: G. Begaye				Printed Name and Signature: Wesley Miller											

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-218-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3512)	Alkalinity (Total, Carbonate, and Bicarbonate) (5212)	Carbon Dioxide (5212)	Methane (8260C)	COMMENTS	
1	GW218-204	10-07-2020	1125	10	3	—	2	1	1*	1	1	1		10-07-2020	
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Beyene</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 1826 5677				TB204-18							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Gabriel Beyene</i>				10-07-2020		1730		Printed Name and Signature: <i>Wesley Miller Jr</i>				10/8/2020		1015	
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-226-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5042308)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS
1	GW226-204	10-07-2020	1435	10	3	—	2	1	1*	1	1	1	—	—	 10-07-2020
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB204- 18															
SAMPLER(S): <i>G. Beyage</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5677											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Gabe Beyage</i>				10-07-2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: <i>Wesley Miller</i>				10/4/2020		145	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-18

YEAR: 2020
QUARTER: 4

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	BTEXN (8250C)	EDB (8011)	Total As, Pb, Cu, K, Na, Mg (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204-18	10/7/2020	1400	4	2	—	2									
2																
3																
4		JRL														
5																

Associated with:
GW217-204
GW218-204
GW226-204

Note: 1xVOC has 1 bubble
~3mm dia

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5677

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
J Livingston [Signature]	10/7/2020	1730			
			Wesley Miller [Signature]	10/8/2020	1405

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-16534-1

Login Number: 16534**List Number: 1****Creator: Reiff, Nicole L****List Source: Eurofins Lancaster Laboratories Env**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-16798-1

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 1

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
12/18/2020 11:14:30 AM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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The
Expert**

Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
12/18/2020 11:14:30 AM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Job ID: 410-16798-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-16798-1

Revision

The report (revision 1) is being revised due to: The limits for the MS/MSD for Lead 6020A were corrected from 88-118% to 88-115% per the QSM.

Receipt

The samples were received on 10/9/2020 10:28 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were -1.2° C, 0.7° C, 0.8° C, 1.0° C and 1.6° C.

GC/MS VOA

Method 8260C DOD: The continuing calibration verification (CCV) analyzed on analytical batch 410-55696 is compliant under 8260C method criteria for 1,2,4-Trichlorobenzene. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260C DOD: The response for 2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone, and Hexachlorobutadiene in the continuing calibration verification associated with batch 410-55696 marginally exceeds the DoD acceptance criteria. Due to the marginal nature of the outlier(s), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: These samples are associated with acceptable QC, however the first set of samples analyzed on the instrument were uploaded separately from the rest of the batch. Therefore, although batches 55074 and 55314 in TALS are separate batches, the physical analysis on the instrument equate to a single "analytical batch".

GW019-204 (410-16798-1), GW040-204 (410-16798-2), GW045-204 (410-16798-3), GW032-204 (410-16798-5), GW055-204 (410-16798-7), GW057-204 (410-16798-8), GW058-204 (410-16798-9), GW042-204 (410-16798-11), GW041-204 (410-16798-12), GW034-204 (410-16798-13), GW106-204 (410-16798-15), GW106-604 (410-16798-16), GW093-204 (410-16798-17), (410-16798-I-8 DU) and (410-16798-I-8 MS)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8011: The surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column: GW019-204 (410-16798-1). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8011: The 1,1,2,2-Tetrachloroethane surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: GW055-204 (410-16798-7). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field Service / Mobile Lab

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep



Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Job ID: 410-16798-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW019-204

Lab Sample ID: 410-16798-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Toluene	1.5		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (2C)	0.026	J M	0.029	0.019	0.0097	ug/L	1		8011	Total/NA
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	96	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	79	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	82		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	13		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.2		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	37		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	0.80		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	0.75		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00028	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	140		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	140		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.5	J1	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW040-204

Lab Sample ID: 410-16798-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.4		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	25	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	55	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	54		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.4		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	29		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	0.044	J	0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Lead	0.000074	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.82		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW045-204

Lab Sample ID: 410-16798-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.68	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	8.1	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	25	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	32		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW045-204 (Continued)

Lab Sample ID: 410-16798-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	4.8		0.10	0.075	0.040	mg/L	1			6010C	Total
Potassium	2.1		0.50	0.38	0.20	mg/L	1			6010C	Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1			6010C	Total
Arsenic	0.00097	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Recoverable
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA

Client Sample ID: TB204-23

Lab Sample ID: 410-16798-4

No Detections.

Client Sample ID: GW032-204

Lab Sample ID: 410-16798-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	84	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	140	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	89		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	13		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	3.4		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	30		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	85		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	85		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	2.3		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: TB204-24

Lab Sample ID: 410-16798-6

No Detections.

Client Sample ID: GW055-204

Lab Sample ID: 410-16798-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethane	0.60	J	1.0	0.50	0.30	ug/L	1			8260C DOD	Total/NA
Acetone	1.6	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Chloride	60	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	54	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	64		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	9.0		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	30		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Manganese	0.0083	J	0.010	0.0052	0.0031	mg/L	1			6010C	Total
Lead	0.000078	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW055-204 (Continued)

Lab Sample ID: 410-16798-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	140		8.0	6.0	8.0	mg/L		1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	140		8.0	6.0	8.0	mg/L		1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.050	J	0.10	0.090	0.040	mg/L		1		353.2	Total/NA

Client Sample ID: GW057-204

Lab Sample ID: 410-16798-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethane	0.33	J	1.0	0.50	0.30	ug/L		1		8260C DOD	Total/NA
Acetone	1.6	J	20	2.0	0.70	ug/L		1		8260C DOD	Total/NA
Chloride	18	J1 D	2.0	1.5	1.0	mg/L		5		EPA 300.0 R2.1	Total/NA
Sulfate	35	D	5.0	4.5	1.5	mg/L		5		EPA 300.0 R2.1	Total/NA
Calcium	46		0.20	0.15	0.096	mg/L		1		6010C	Total Recoverable
Magnesium	6.4		0.10	0.075	0.040	mg/L		1		6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L		1		6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L		1		6010C	Total Recoverable
Manganese	0.016		0.010	0.0052	0.0031	mg/L		1		6010C	Dissolved
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		1		2320B-2011	Total/NA

Client Sample ID: GW058-204

Lab Sample ID: 410-16798-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	11	D	2.0	1.5	1.0	mg/L		5		EPA 300.0 R2.1	Total/NA
Sulfate	28	D	5.0	4.5	1.5	mg/L		5		EPA 300.0 R2.1	Total/NA
Calcium	38		0.20	0.15	0.096	mg/L		1		6010C	Total Recoverable
Magnesium	5.3		0.10	0.075	0.040	mg/L		1		6010C	Total Recoverable
Potassium	2.2		0.50	0.38	0.20	mg/L		1		6010C	Total Recoverable
Sodium	23		1.0	0.50	0.24	mg/L		1		6010C	Total Recoverable
Arsenic	0.00074	J	0.0020	0.0016	0.00068	mg/L		1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		1		2320B-2011	Total/NA

Client Sample ID: TB204-25

Lab Sample ID: 410-16798-10

No Detections.

Client Sample ID: GW042-204

Lab Sample ID: 410-16798-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.043		0.028	0.019	0.0095	ug/L		1		8011	Total/NA
Chloride	89	D	20	15	10	mg/L		50		EPA 300.0 R2.1	Total/NA
Sulfate	150	D	50	45	15	mg/L		50		EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW042-204 (Continued)

Lab Sample ID: 410-16798-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Calcium	110		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	15		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	36		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	97		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	97		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.1		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW041-204

Lab Sample ID: 410-16798-12

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.074		0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	68	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	120	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	89		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	12		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.8		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	33		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.8		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW034-204

Lab Sample ID: 410-16798-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.88	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Chloride	48	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	68	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	59		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	8.7		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	89		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	89		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.98		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-26

Lab Sample ID: 410-16798-14

No Detections.

Client Sample ID: GW106-204

Lab Sample ID: 410-16798-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.027	J	0.029	0.019	0.0095	ug/L	1		8011	Total/NA
Chloride	37	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	50	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	49		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.8		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	99		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	99		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.83		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW106-604

Lab Sample ID: 410-16798-16

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.030		0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	34	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	51	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	51		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.1		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00079	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	96		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	96		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.85		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW093-204

Lab Sample ID: 410-16798-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	51	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	50	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	48		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.5		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	30		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	91		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW093-204 (Continued)

Lab Sample ID: 410-16798-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	91		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.2		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-27

Lab Sample ID: 410-16798-18

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC



Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW019-204

Lab Sample ID: 410-16798-1

Date Collected: 10/08/20 09:33

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:42	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 00:42	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 00:42	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 00:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 00:42	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 00:42	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:42	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 00:42	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
2-Hexanone	1.0	U Q M	10	1.0	0.30	ug/L		10/19/20 00:42	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
4-Methyl-2-pentanone	1.0	U Q M	10	1.0	0.50	ug/L		10/19/20 00:42	1
Acetone	10	J	20	2.0	0.70	ug/L		10/19/20 00:42	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 00:42	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 00:42	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 00:42	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:42	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Chloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Dichlorodifluoromethane	0.50	U M	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 00:42	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 00:42	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW019-204

Lab Sample ID: 410-16798-1

Date Collected: 10/08/20 09:33

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 00:42	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 00:42	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 00:42	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 00:42	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 00:42	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 00:42	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Toluene	1.5		1.0	0.50	0.20	ug/L		10/19/20 00:42	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 00:42	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 00:42	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		81 - 118		10/19/20 00:42	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/19/20 00:42	1
Dibromofluoromethane (Surr)	95		80 - 119		10/19/20 00:42	1
Toluene-d8 (Surr)	99		89 - 112		10/19/20 00:42	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.026	J M	0.029	0.019	0.0097	ug/L		10/20/20 07:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	140	Q	46 - 136	10/17/20 00:09	10/20/20 07:05	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	10/17/20 00:09	10/20/20 07:05	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.5	J D	2.5	2.0	1.3	mg/L		11/02/20 14:33	5
Chloride	96	D	20	15	10	mg/L		10/16/20 11:02	50
Sulfate	79	D	50	45	15	mg/L		10/16/20 11:02	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	82		0.20	0.15	0.096	mg/L		10/16/20 12:58	1
Magnesium	13		0.10	0.075	0.040	mg/L		10/16/20 12:58	1
Potassium	3.2		0.50	0.38	0.20	mg/L		10/16/20 12:58	1
Sodium	37		1.0	0.50	0.24	mg/L		10/16/20 12:58	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.80		0.21	0.10	0.041	mg/L		10/15/20 19:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW019-204

Lab Sample ID: 410-16798-1

Date Collected: 10/08/20 09:33

Matrix: Water

Date Received: 10/09/20 10:28

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.75		0.010	0.0052	0.0031	mg/L		10/15/20 19:26	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L		10/13/20 17:04	1
Lead	0.00028	J	0.00050	0.00025	0.000071	mg/L		10/13/20 17:04	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	140		8.0	6.0	8.0	mg/L		10/14/20 00:53	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 00:53	1
Total Alkalinity as CaCO ₃ to pH 4.5	140		8.0	6.0	8.0	mg/L		10/14/20 00:53	1
Nitrate Nitrite as N	2.5	J1	0.10	0.090	0.040	mg/L		11/01/20 13:02	1

Client Sample ID: GW040-204

Lab Sample ID: 410-16798-2

Date Collected: 10/07/20 09:23

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:04	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 01:04	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 01:04	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:04	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:04	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:04	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:04	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 01:04	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 01:04	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/19/20 01:04	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 01:04	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 01:04	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 01:04	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW040-204

Lab Sample ID: 410-16798-2

Date Collected: 10/07/20 09:23

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 01:04	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:04	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:04	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 01:04	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:04	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:04	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:04	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:04	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:04	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:04	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Toluene	1.4		1.0	0.50	0.20	ug/L		10/19/20 01:04	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 01:04	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:04	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		81 - 118		10/19/20 01:04	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/19/20 01:04	1
Dibromofluoromethane (Surr)	93		80 - 119		10/19/20 01:04	1
Toluene-d8 (Surr)	99		89 - 112		10/19/20 01:04	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 06:15	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW040-204

Lab Sample ID: 410-16798-2

Date Collected: 10/07/20 09:23

Matrix: Water

Date Received: 10/09/20 10:28

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	111		46 - 136	10/17/20 01:12	10/20/20 06:15	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/17/20 01:12	10/20/20 06:15	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/16/20 11:39	50
Chloride	25	D	2.0	1.5	1.0	mg/L		10/16/20 11:21	5
Sulfate	55	D	5.0	4.5	1.5	mg/L		10/16/20 11:21	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	54		0.20	0.15	0.096	mg/L		10/16/20 13:05	1
Magnesium	7.4		0.10	0.075	0.040	mg/L		10/16/20 13:05	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/16/20 13:05	1
Sodium	29		1.0	0.50	0.24	mg/L		10/16/20 13:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.044	J	0.21	0.10	0.041	mg/L		10/16/20 13:27	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 13:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 17:08	1
Lead	0.000074	J	0.00050	0.00025	0.000071	mg/L		10/13/20 17:08	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/14/20 04:03	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 04:03	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/14/20 04:03	1
Nitrate Nitrite as N	0.82		0.10	0.090	0.040	mg/L		11/01/20 13:05	1

Client Sample ID: GW045-204

Lab Sample ID: 410-16798-3

Date Collected: 10/08/20 12:19

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:26	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 01:26	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 01:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:26	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW045-204

Lab Sample ID: 410-16798-3

Date Collected: 10/08/20 12:19

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:26	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:26	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:26	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 01:26	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 01:26	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/19/20 01:26	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 01:26	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 01:26	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 01:26	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 01:26	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:26	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Chloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:26	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 01:26	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:26	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:26	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:26	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:26	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
sec-Butylbenzene	0.50	U M	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:26	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:26	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Toluene	0.68	J	1.0	0.50	0.20	ug/L		10/19/20 01:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW045-204

Lab Sample ID: 410-16798-3

Date Collected: 10/08/20 12:19

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 01:26	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:26	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		81 - 118		10/19/20 01:26	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/19/20 01:26	1
Dibromofluoromethane (Surr)	93		80 - 119		10/19/20 01:26	1
Toluene-d8 (Surr)	99		89 - 112		10/19/20 01:26	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 07:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/17/20 00:09	10/20/20 07:22	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 00:09	10/20/20 07:22	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/02/20 15:46	5
Chloride	8.1	D	2.0	1.5	1.0	mg/L		10/16/20 11:57	5
Sulfate	25	D	5.0	4.5	1.5	mg/L		10/16/20 11:57	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	32		0.20	0.15	0.096	mg/L		10/16/20 13:12	1
Magnesium	4.8		0.10	0.075	0.040	mg/L		10/16/20 13:12	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/16/20 13:12	1
Sodium	21		1.0	0.50	0.24	mg/L		10/16/20 13:12	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 13:30	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 13:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00097	J	0.0020	0.0016	0.00068	mg/L		10/13/20 17:09	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 17:09	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L		10/14/20 03:33	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 03:33	1
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L		10/14/20 03:33	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/01/20 13:06	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-23

Lab Sample ID: 410-16798-4

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 20:39	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/18/20 20:39	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:39	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:39	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 20:39	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 20:39	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/18/20 20:39	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 20:39	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 20:39	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 20:39	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 20:39	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:39	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/18/20 20:39	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-23

Lab Sample ID: 410-16798-4

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:39	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:39	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:39	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:39	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:39	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:39	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 20:39	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:39	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/18/20 20:39	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/18/20 20:39	1
Dibromofluoromethane (Surr)	98		80 - 119		10/18/20 20:39	1
Toluene-d8 (Surr)	96		89 - 112		10/18/20 20:39	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136	10/17/20 00:09	10/20/20 07:39	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/17/20 00:09	10/20/20 07:39	1

Client Sample ID: GW032-204

Lab Sample ID: 410-16798-5

Date Collected: 10/08/20 08:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:30	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 22:30	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/18/20 22:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW032-204

Lab Sample ID: 410-16798-5

Date Collected: 10/08/20 08:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:30	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:30	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:30	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 22:30	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 22:30	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/18/20 22:30	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 22:30	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 22:30	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 22:30	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 22:30	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:30	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 22:30	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/18/20 22:30	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:30	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:30	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:30	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 22:30	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW032-204

Lab Sample ID: 410-16798-5

Date Collected: 10/08/20 08:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:30	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 22:30	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:30	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/18/20 22:30	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/18/20 22:30	1
Dibromofluoromethane (Surr)	99		80 - 119		10/18/20 22:30	1
Toluene-d8 (Surr)	95		89 - 112		10/18/20 22:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/20/20 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136	10/17/20 00:41	10/20/20 06:04	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 00:41	10/20/20 06:04	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/16/20 12:33	50
Chloride	84	D	20	15	10	mg/L		10/16/20 12:33	50
Sulfate	140	D	50	45	15	mg/L		10/16/20 12:33	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	89		0.20	0.15	0.096	mg/L		10/16/20 13:08	1
Magnesium	13		0.10	0.075	0.040	mg/L		10/16/20 13:08	1
Potassium	3.4		0.50	0.38	0.20	mg/L		10/16/20 13:08	1
Sodium	30		1.0	0.50	0.24	mg/L		10/16/20 13:08	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 13:52	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 13:52	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L		10/13/20 16:44	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 16:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	85		8.0	6.0	8.0	mg/L		10/14/20 00:37	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW032-204

Lab Sample ID: 410-16798-5

Date Collected: 10/08/20 08:20

Matrix: Water

Date Received: 10/09/20 10:28

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 00:37	1
Total Alkalinity as CaCO ₃ to pH 4.5	85		8.0	6.0	8.0	mg/L		10/14/20 00:37	1
Nitrate Nitrite as N	2.3		0.10	0.090	0.040	mg/L		11/01/20 13:18	1

Client Sample ID: TB204-24

Lab Sample ID: 410-16798-6

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:02	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 21:02	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/18/20 21:02	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:02	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:02	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:02	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:02	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 21:02	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 21:02	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/18/20 21:02	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 21:02	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 21:02	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 21:02	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 21:02	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:02	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-24

Lab Sample ID: 410-16798-6

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 21:02	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/18/20 21:02	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:02	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:02	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:02	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 21:02	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:02	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:02	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 21:02	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:02	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/18/20 21:02	1
4-Bromofluorobenzene (Surr)	93		85 - 114		10/18/20 21:02	1
Dibromofluoromethane (Surr)	97		80 - 119		10/18/20 21:02	1
Toluene-d8 (Surr)	96		89 - 112		10/18/20 21:02	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	95		46 - 136	10/17/20 00:41	10/20/20 06:21	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/17/20 00:41	10/20/20 06:21	1

Client Sample ID: GW055-204

Lab Sample ID: 410-16798-7

Date Collected: 10/08/20 12:40

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW055-204

Lab Sample ID: 410-16798-7

Date Collected: 10/08/20 12:40

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:48	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 01:48	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 01:48	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:48	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,2-Dichloroethane	0.60	J	1.0	0.50	0.30	ug/L		10/19/20 01:48	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:48	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:48	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 01:48	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
2-Hexanone	1.0	U Q M	10	1.0	0.30	ug/L		10/19/20 01:48	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
4-Methyl-2-pentanone	1.0	U Q M	10	1.0	0.50	ug/L		10/19/20 01:48	1
Acetone	1.6	J	20	2.0	0.70	ug/L		10/19/20 01:48	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 01:48	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 01:48	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 01:48	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:48	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Chloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:48	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 01:48	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW055-204

Lab Sample ID: 410-16798-7

Date Collected: 10/08/20 12:40

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 01:48	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 01:48	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 01:48	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 01:48	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 01:48	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 01:48	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 01:48	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		81 - 118		10/19/20 01:48	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 01:48	1
Dibromofluoromethane (Surr)	90		80 - 119		10/19/20 01:48	1
Toluene-d8 (Surr)	99		89 - 112		10/19/20 01:48	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	111		46 - 136	10/17/20 00:41	10/20/20 06:38	1
1,1,2,2-Tetrachloroethane (2C)	137	Q	46 - 136	10/17/20 00:41	10/20/20 06:38	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/16/20 13:09	50
Chloride	60	D	20	15	10	mg/L		10/16/20 13:09	50
Sulfate	54	D	5.0	4.5	1.5	mg/L		10/16/20 12:51	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	64		0.20	0.15	0.096	mg/L		10/16/20 13:01	1
Magnesium	9.0		0.10	0.075	0.040	mg/L		10/16/20 13:01	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/16/20 13:01	1
Sodium	30		1.0	0.50	0.24	mg/L		10/16/20 13:01	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 19:16	1
Manganese	0.0083	J	0.010	0.0052	0.0031	mg/L		10/15/20 19:16	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW055-204

Lab Sample ID: 410-16798-7

Date Collected: 10/08/20 12:40

Matrix: Water

Date Received: 10/09/20 10:28

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 17:06	1
Lead	0.000078	J	0.00050	0.00025	0.000071	mg/L		10/13/20 17:06	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	140		8.0	6.0	8.0	mg/L		10/14/20 01:00	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 01:00	1
Total Alkalinity as CaCO ₃ to pH 4.5	140		8.0	6.0	8.0	mg/L		10/14/20 01:00	1
Nitrate Nitrite as N	0.050	J	0.10	0.090	0.040	mg/L		11/01/20 13:17	1

Client Sample ID: GW057-204

Lab Sample ID: 410-16798-8

Date Collected: 10/08/20 13:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:10	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 02:10	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 02:10	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:10	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,2-Dichloroethane	0.33	J	1.0	0.50	0.30	ug/L		10/19/20 02:10	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:10	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:10	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 02:10	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 02:10	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
4-Methyl-2-pentanone	1.0	U Q M	10	1.0	0.50	ug/L		10/19/20 02:10	1
Acetone	1.6	J	20	2.0	0.70	ug/L		10/19/20 02:10	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 02:10	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 02:10	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 02:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW057-204

Lab Sample ID: 410-16798-8

Date Collected: 10/08/20 13:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:10	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 02:10	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 02:10	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:10	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:10	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:10	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 02:10	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:10	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:10	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 02:10	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:10	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		81 - 118		10/19/20 02:10	1
4-Bromofluorobenzene (Surr)	93		85 - 114		10/19/20 02:10	1
Dibromofluoromethane (Surr)	92		80 - 119		10/19/20 02:10	1
Toluene-d8 (Surr)	100		89 - 112		10/19/20 02:10	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136	10/17/20 00:41	10/20/20 06:55	1
1,1,2,2-Tetrachloroethane (2C)	102		46 - 136	10/17/20 00:41	10/20/20 06:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW057-204

Lab Sample ID: 410-16798-8

Date Collected: 10/08/20 13:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/02/20 16:40	5
Chloride	18	J1 D	2.0	1.5	1.0	mg/L		10/16/20 13:27	5
Sulfate	35	D	5.0	4.5	1.5	mg/L		10/16/20 13:27	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	46		0.20	0.15	0.096	mg/L		10/16/20 13:18	1
Magnesium	6.4		0.10	0.075	0.040	mg/L		10/16/20 13:18	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/16/20 13:18	1
Sodium	25		1.0	0.50	0.24	mg/L		10/16/20 13:18	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 13:42	1
Manganese	0.016		0.010	0.0052	0.0031	mg/L		10/16/20 13:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 17:02	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 17:02	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/14/20 03:25	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 03:25	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/14/20 03:25	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/01/20 13:22	1

Client Sample ID: GW058-204

Lab Sample ID: 410-16798-9

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:32	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 02:32	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 02:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:32	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:32	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW058-204

Lab Sample ID: 410-16798-9

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:32	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 02:32	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 02:32	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/19/20 02:32	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 02:32	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 02:32	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 02:32	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 02:32	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:32	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 02:32	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 02:32	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:32	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:32	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:32	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 02:32	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:32	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:32	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW058-204

Lab Sample ID: 410-16798-9

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 02:32	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:32	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		81 - 118					10/19/20 02:32	1
4-Bromofluorobenzene (Surr)	94		85 - 114					10/19/20 02:32	1
Dibromofluoromethane (Surr)	92		80 - 119					10/19/20 02:32	1
Toluene-d8 (Surr)	99		89 - 112					10/19/20 02:32	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 07:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	110		46 - 136				10/17/20 00:41	10/20/20 07:12	1
1,1,2,2-Tetrachloroethane (2C)	112		46 - 136				10/17/20 00:41	10/20/20 07:12	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/02/20 17:34	5
Chloride	11	D	2.0	1.5	1.0	mg/L		10/16/20 14:58	5
Sulfate	28	D	5.0	4.5	1.5	mg/L		10/16/20 14:58	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	38		0.20	0.15	0.096	mg/L		10/16/20 12:48	1
Magnesium	5.3		0.10	0.075	0.040	mg/L		10/16/20 12:48	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/16/20 12:48	1
Sodium	23		1.0	0.50	0.24	mg/L		10/16/20 12:48	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 13:33	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 13:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00074	J	0.0020	0.0016	0.00068	mg/L		10/13/20 17:01	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 17:01	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/14/20 03:48	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 03:48	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/14/20 03:48	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/01/20 13:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-25

Lab Sample ID: 410-16798-10

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:24	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 21:24	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/18/20 21:24	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:24	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:24	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:24	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:24	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 21:24	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 21:24	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/18/20 21:24	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 21:24	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 21:24	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 21:24	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 21:24	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:24	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 21:24	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/18/20 21:24	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-25

Lab Sample ID: 410-16798-10

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:24	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:24	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:24	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 21:24	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:24	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:24	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 21:24	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:24	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/18/20 21:24	1
4-Bromofluorobenzene (Surr)	93		85 - 114		10/18/20 21:24	1
Dibromofluoromethane (Surr)	99		80 - 119		10/18/20 21:24	1
Toluene-d8 (Surr)	96		89 - 112		10/18/20 21:24	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/20/20 08:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136	10/17/20 00:41	10/20/20 08:03	1
1,1,2,2-Tetrachloroethane (2C)	106		46 - 136	10/17/20 00:41	10/20/20 08:03	1

Client Sample ID: GW042-204

Lab Sample ID: 410-16798-11

Date Collected: 10/08/20 10:30

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:54	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 02:54	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 02:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW042-204

Lab Sample ID: 410-16798-11

Date Collected: 10/08/20 10:30

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:54	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:54	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:54	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:54	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 02:54	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 02:54	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/19/20 02:54	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 02:54	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 02:54	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 02:54	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 02:54	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:54	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 02:54	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 02:54	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:54	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 02:54	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 02:54	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 02:54	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 02:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW042-204

Lab Sample ID: 410-16798-11

Date Collected: 10/08/20 10:30

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 02:54	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 02:54	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 02:54	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		81 - 118		10/19/20 02:54	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/19/20 02:54	1
Dibromofluoromethane (Surr)	92		80 - 119		10/19/20 02:54	1
Toluene-d8 (Surr)	101		89 - 112		10/19/20 02:54	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.043		0.028	0.019	0.0095	ug/L		10/20/20 08:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	89		46 - 136	10/17/20 00:41	10/20/20 08:20	1
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/17/20 00:41	10/20/20 08:20	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/16/20 15:34	50
Chloride	89	D	20	15	10	mg/L		10/16/20 15:34	50
Sulfate	150	D	50	45	15	mg/L		10/16/20 15:34	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	110		0.20	0.15	0.096	mg/L		10/16/20 12:31	1
Magnesium	15		0.10	0.075	0.040	mg/L		10/16/20 12:31	1
Potassium	4.1		0.50	0.38	0.20	mg/L		10/16/20 12:31	1
Sodium	36		1.0	0.50	0.24	mg/L		10/16/20 12:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 13:23	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 13:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 17:21	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 17:21	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	97		8.0	6.0	8.0	mg/L		10/14/20 00:45	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW042-204

Lab Sample ID: 410-16798-11

Date Collected: 10/08/20 10:30

Matrix: Water

Date Received: 10/09/20 10:28

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 00:45	1
Total Alkalinity as CaCO ₃ to pH 4.5	97		8.0	6.0	8.0	mg/L		10/14/20 00:45	1
Nitrate Nitrite as N	2.1		0.10	0.090	0.040	mg/L		11/01/20 13:24	1

Client Sample ID: GW041-204

Lab Sample ID: 410-16798-12

Date Collected: 10/08/20 10:15

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:16	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 03:16	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 03:16	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 03:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:16	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:16	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:16	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:16	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 03:16	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 03:16	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/19/20 03:16	1
Acetone	1.0	J	20	2.0	0.70	ug/L		10/19/20 03:16	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 03:16	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 03:16	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 03:16	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:16	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:16	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:16	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW041-204

Lab Sample ID: 410-16798-12

Date Collected: 10/08/20 10:15

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/19/20 03:16	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L	—	10/19/20 03:16	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 03:16	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 03:16	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 03:16	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/19/20 03:16	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 03:16	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/19/20 03:16	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:16	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/19/20 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		81 - 118		10/19/20 03:16	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/19/20 03:16	1
Dibromofluoromethane (Surr)	92		80 - 119		10/19/20 03:16	1
Toluene-d8 (Surr)	99		89 - 112		10/19/20 03:16	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.074		0.029	0.019	0.0096	ug/L	—	10/20/20 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136	10/17/20 00:41	10/20/20 08:37	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 00:41	10/20/20 08:37	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L	—	10/16/20 16:10	50
Chloride	68	D	20	15	10	mg/L	—	10/16/20 16:10	50
Sulfate	120	D	50	45	15	mg/L	—	10/16/20 16:10	50

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW041-204

Lab Sample ID: 410-16798-12

Date Collected: 10/08/20 10:15

Matrix: Water

Date Received: 10/09/20 10:28

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	89		0.20	0.15	0.096	mg/L		10/16/20 12:35	1
Magnesium	12		0.10	0.075	0.040	mg/L		10/16/20 12:35	1
Potassium	3.8		0.50	0.38	0.20	mg/L		10/16/20 12:35	1
Sodium	33		1.0	0.50	0.24	mg/L		10/16/20 12:35	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 13:17	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 13:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 17:16	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 17:16	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/14/20 04:19	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 04:19	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/14/20 04:19	1
Nitrate Nitrite as N	1.8		0.10	0.090	0.040	mg/L		11/01/20 13:27	1

Client Sample ID: GW034-204

Lab Sample ID: 410-16798-13

Date Collected: 10/08/20 09:25

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:38	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 03:38	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 03:38	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 03:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:38	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:38	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:38	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:38	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 03:38	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW034-204

Lab Sample ID: 410-16798-13

Date Collected: 10/08/20 09:25

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 03:38	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/19/20 03:38	1
Acetone	0.88	J	20	2.0	0.70	ug/L		10/19/20 03:38	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 03:38	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 03:38	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 03:38	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:38	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Ethylbenzene	0.80	U M	1.0	0.80	0.40	ug/L		10/19/20 03:38	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 03:38	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 03:38	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:38	1
Naphthalene	2.0	U M	5.0	2.0	1.0	ug/L		10/19/20 03:38	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 03:38	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:38	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:38	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 03:38	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:38	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 03:38	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac		
1,2-Dichloroethane-d4 (Surr)	97		81 - 118			10/19/20 03:38	1		
4-Bromofluorobenzene (Surr)	97		85 - 114			10/19/20 03:38	1		

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW034-204

Lab Sample ID: 410-16798-13

Date Collected: 10/08/20 09:25

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	93		80 - 119		10/19/20 03:38	1
Toluene-d8 (Surr)	99		89 - 112		10/19/20 03:38	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 08:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	101		46 - 136	10/17/20 00:41	10/20/20 08:54	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 00:41	10/20/20 08:54	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/16/20 16:47	50
Chloride	48	D	20	15	10	mg/L		10/16/20 16:47	50
Sulfate	68	D	5.0	4.5	1.5	mg/L		10/16/20 16:29	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	59		0.20	0.15	0.096	mg/L		10/16/20 12:42	1
Magnesium	8.7		0.10	0.075	0.040	mg/L		10/16/20 12:42	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/16/20 12:42	1
Sodium	24		1.0	0.50	0.24	mg/L		10/16/20 12:42	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:39	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:39	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 17:13	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 17:13	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	89		8.0	6.0	8.0	mg/L		10/14/20 03:41	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 03:41	1
Total Alkalinity as CaCO ₃ to pH 4.5	89		8.0	6.0	8.0	mg/L		10/14/20 03:41	1
Nitrate Nitrite as N	0.98		0.10	0.090	0.040	mg/L		11/01/20 13:29	1

Client Sample ID: TB204-26

Lab Sample ID: 410-16798-14

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:46	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-26

Lab Sample ID: 410-16798-14

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 21:46	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/18/20 21:46	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:46	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:46	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:46	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:46	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 21:46	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 21:46	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/18/20 21:46	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 21:46	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 21:46	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 21:46	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 21:46	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:46	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 21:46	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/18/20 21:46	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:46	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:46	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-26

Lab Sample ID: 410-16798-14

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 21:46	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:46	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:46	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 21:46	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:46	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/18/20 21:46	1
4-Bromofluorobenzene (Surr)	93		85 - 114		10/18/20 21:46	1
Dibromofluoromethane (Surr)	97		80 - 119		10/18/20 21:46	1
Toluene-d8 (Surr)	96		89 - 112		10/18/20 21:46	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/20/20 09:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/17/20 00:41	10/20/20 09:11	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/17/20 00:41	10/20/20 09:11	1

Client Sample ID: GW106-204

Lab Sample ID: 410-16798-15

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:00	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 04:00	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 04:00	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 04:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:00	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW106-204

Lab Sample ID: 410-16798-15

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:00	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:00	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:00	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 04:00	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 04:00	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/19/20 04:00	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 04:00	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 04:00	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 04:00	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 04:00	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:00	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 04:00	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 04:00	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 04:00	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:00	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 04:00	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 04:00	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:00	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:00	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW106-204

Lab Sample ID: 410-16798-15

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 04:00	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:00	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		81 - 118		10/19/20 04:00	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 04:00	1
Dibromofluoromethane (Surr)	94		80 - 119		10/19/20 04:00	1
Toluene-d8 (Surr)	98		89 - 112		10/19/20 04:00	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.027	J	0.029	0.019	0.0095	ug/L		10/20/20 09:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/17/20 00:41	10/20/20 09:28	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/17/20 00:41	10/20/20 09:28	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/16/20 17:23	50
Chloride	37	D	20	15	10	mg/L		10/16/20 17:23	50
Sulfate	50	D	5.0	4.5	1.5	mg/L		10/16/20 17:05	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	49		0.20	0.15	0.096	mg/L		10/16/20 12:45	1
Magnesium	6.8		0.10	0.075	0.040	mg/L		10/16/20 12:45	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/16/20 12:45	1
Sodium	25		1.0	0.50	0.24	mg/L		10/16/20 12:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 13:20	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 13:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 17:11	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 17:11	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	99		8.0	6.0	8.0	mg/L		10/14/20 01:07	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 01:07	1
Total Alkalinity as CaCO ₃ to pH 4.5	99		8.0	6.0	8.0	mg/L		10/14/20 01:07	1
Nitrate Nitrite as N	0.83		0.10	0.090	0.040	mg/L		11/01/20 13:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW106-604

Lab Sample ID: 410-16798-16

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:22	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 04:22	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/19/20 04:22	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 04:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:22	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:22	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:22	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:22	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 04:22	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/19/20 04:22	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/19/20 04:22	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 04:22	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 04:22	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 04:22	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 04:22	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:22	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Ethylbenzene	0.80	U M	1.0	0.80	0.40	ug/L		10/19/20 04:22	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 04:22	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW106-604

Lab Sample ID: 410-16798-16

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 04:22	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:22	1
Naphthalene	2.0	U M	5.0	2.0	1.0	ug/L		10/19/20 04:22	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 04:22	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:22	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:22	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Toluene	0.50	U M	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 04:22	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:22	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		81 - 118		10/19/20 04:22	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 04:22	1
Dibromofluoromethane (Surr)	92		80 - 119		10/19/20 04:22	1
Toluene-d8 (Surr)	99		89 - 112		10/19/20 04:22	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.030		0.029	0.019	0.0096	ug/L		10/20/20 09:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/17/20 00:41	10/20/20 09:45	1
1,1,2,2-Tetrachloroethane (2C)	107		46 - 136	10/17/20 00:41	10/20/20 09:45	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/16/20 18:17	5
Chloride	34	D	20	15	10	mg/L		10/16/20 18:36	50
Sulfate	51	D	5.0	4.5	1.5	mg/L		10/16/20 18:17	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	51		0.20	0.15	0.096	mg/L		10/16/20 12:38	1
Magnesium	7.1		0.10	0.075	0.040	mg/L		10/16/20 12:38	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/16/20 12:38	1
Sodium	26		1.0	0.50	0.24	mg/L		10/16/20 12:38	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 09:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW106-604

Lab Sample ID: 410-16798-16

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L	—	10/20/20 09:11	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00079	J	0.0020	0.0016	0.00068	mg/L	—	10/13/20 17:14	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/13/20 17:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	96		8.0	6.0	8.0	mg/L	—	10/14/20 04:11	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/14/20 04:11	1
Total Alkalinity as CaCO ₃ to pH 4.5	96		8.0	6.0	8.0	mg/L	—	10/14/20 04:11	1
Nitrate Nitrite as N	0.85		0.10	0.090	0.040	mg/L	—	11/01/20 13:31	1

Client Sample ID: GW093-204

Lab Sample ID: 410-16798-17

Date Collected: 10/08/20 13:40

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 04:44	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/19/20 04:44	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L	—	10/19/20 04:44	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 04:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 04:44	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 04:44	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 04:44	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 04:44	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L	—	10/19/20 04:44	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L	—	10/19/20 04:44	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:44	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L	—	10/19/20 04:44	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/19/20 04:44	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/19/20 04:44	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/19/20 04:44	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:44	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW093-204

Lab Sample ID: 410-16798-17

Date Collected: 10/08/20 13:40

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 04:44	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:44	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 04:44	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 04:44	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 04:44	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:44	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 04:44	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 04:44	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:44	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:44	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 04:44	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:44	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		81 - 118		10/19/20 04:44	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 04:44	1
Dibromofluoromethane (Surr)	93		80 - 119		10/19/20 04:44	1
Toluene-d8 (Surr)	98		89 - 112		10/19/20 04:44	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 10:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW093-204

Lab Sample ID: 410-16798-17

Date Collected: 10/08/20 13:40

Matrix: Water

Date Received: 10/09/20 10:28

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136	10/17/20 00:41	10/20/20 10:02	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	10/17/20 00:41	10/20/20 10:02	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/16/20 18:54	5
Chloride	51	D	20	15	10	mg/L		10/16/20 19:12	50
Sulfate	50	D	5.0	4.5	1.5	mg/L		10/16/20 18:54	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	48		0.20	0.15	0.096	mg/L		10/16/20 12:28	1
Magnesium	6.5		0.10	0.075	0.040	mg/L		10/16/20 12:28	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/16/20 12:28	1
Sodium	30		1.0	0.50	0.24	mg/L		10/16/20 12:28	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 09:08	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 09:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 17:23	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 17:23	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	91		8.0	6.0	8.0	mg/L		10/14/20 03:56	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 03:56	1
Total Alkalinity as CaCO ₃ to pH 4.5	91		8.0	6.0	8.0	mg/L		10/14/20 03:56	1
Nitrate Nitrite as N	1.2		0.10	0.090	0.040	mg/L		11/01/20 13:32	1

Client Sample ID: TB204-27

Lab Sample ID: 410-16798-18

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:08	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 22:08	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,2,4-Trichlorobenzene	1.0	U Q	5.0	1.0	0.30	ug/L		10/18/20 22:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-27

Lab Sample ID: 410-16798-18

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:08	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:08	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:08	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 22:08	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/18/20 22:08	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		10/18/20 22:08	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 22:08	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 22:08	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 22:08	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 22:08	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:08	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 22:08	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/18/20 22:08	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:08	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:08	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:08	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 22:08	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:08	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:08	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: TB204-27

Lab Sample ID: 410-16798-18

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 22:08	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:08	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/18/20 22:08	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/18/20 22:08	1
Dibromofluoromethane (Surr)	96		80 - 119		10/18/20 22:08	1
Toluene-d8 (Surr)	95		89 - 112		10/18/20 22:08	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	101		46 - 136	10/17/20 00:41	10/20/20 10:19	1
1,1,2,2-Tetrachloroethane (2C)	102		46 - 136	10/17/20 00:41	10/20/20 10:19	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(81-118)	(85-114)	(80-119)	(89-112)
410-16798-1	GW019-204	97	94	95	99
410-16798-2	GW040-204	92	95	93	99
410-16798-3	GW045-204	93	94	93	99
410-16798-4	TB204-23	100	92	98	96
410-16798-5	GW032-204	99	92	99	95
410-16798-5 MS	GW032-204	98	97	98	96
410-16798-5 MS	GW032-204	98	92	94	96
410-16798-5 MSD	GW032-204	98	97	97	97
410-16798-5 MSD	GW032-204	97	93	95	96
410-16798-6	TB204-24	99	93	97	96
410-16798-7	GW055-204	92	96	90	99
410-16798-8	GW057-204	93	93	92	100
410-16798-9	GW058-204	93	94	92	99
410-16798-10	TB204-25	101	93	99	96
410-16798-11	GW042-204	95	94	92	101
410-16798-12	GW041-204	94	95	92	99
410-16798-13	GW034-204	97	97	93	99
410-16798-14	TB204-26	98	93	97	96
410-16798-15	GW106-204	96	96	94	98
410-16798-16	GW106-604	96	96	92	99
410-16798-17	GW093-204	96	96	93	98
410-16798-18	TB204-27	99	92	96	95
LCS 410-55696/5	Lab Control Sample	98	97	96	97
LCS 410-55696/6	Lab Control Sample	98	94	95	96
MB 410-55696/8	Method Blank	100	94	97	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-16798-1	GW019-204	140 Q	101
410-16798-2	GW040-204	111	98
410-16798-3	GW045-204	104	95
410-16798-4	TB204-23	105	97
410-16798-5	GW032-204	96	95
410-16798-5 MS	GW032-204	91	87
410-16798-5 MSD	GW032-204	96	93
410-16798-6	TB204-24	95	97
410-16798-7	GW055-204	111	137 Q
410-16798-8	GW057-204	103	102
410-16798-9	GW058-204	110	112
410-16798-10	TB204-25	103	106

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-16798-11	GW042-204	89	89
410-16798-12	GW041-204	96	95
410-16798-13	GW034-204	101	95
410-16798-14	TB204-26	97	99
410-16798-15	GW106-204	97	97
410-16798-16	GW106-604	104	107
410-16798-17	GW093-204	102	101
410-16798-18	TB204-27	101	102
LCS 410-55438/2-A	Lab Control Sample	99	95
LCS 410-55440/2-A	Lab Control Sample	88	92
LCS 410-55443/2-A	Lab Control Sample	90	85
LCSD 410-55438/3-A	Lab Control Sample Dup	102	99
LCSD 410-55440/3-A	Lab Control Sample Dup	93	96
LCSD 410-55443/3-A	Lab Control Sample Dup	93	89
MB 410-55438/1-A	Method Blank	95	91
MB 410-55440/1-A	Method Blank	94	95
MB 410-55443/1-A	Method Blank	94	90

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-55696/8

Matrix: Water

Analysis Batch: 55696

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:08	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 20:08	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:08	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:08	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:08	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 20:08	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 20:08	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/18/20 20:08	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 20:08	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 20:08	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 20:08	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 20:08	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:08	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:08	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/18/20 20:08	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-55696/8

Matrix: Water

Analysis Batch: 55696

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:08	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:08	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:08	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:08	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:08	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:08	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 20:08	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:08	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 20:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/18/20 20:08	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/18/20 20:08	1
Dibromofluoromethane (Surr)	97		80 - 119		10/18/20 20:08	1
Toluene-d8 (Surr)	96		89 - 112		10/18/20 20:08	1

Lab Sample ID: LCS 410-55696/5

Matrix: Water

Analysis Batch: 55696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.1		ug/L		91	78 - 124
1,1,1-Trichloroethane	20.0	18.6		ug/L		93	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	71 - 121
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	80 - 119
1,1-Dichloroethane	20.0	19.8		ug/L		99	77 - 125
1,1-Dichloroethene	20.0	18.8		ug/L		94	71 - 131
1,1-Dichloropropene	20.0	20.1		ug/L		100	79 - 125
1,2,3-Trichlorobenzene	20.0	16.4		ug/L		82	69 - 129
1,2,3-Trichloropropane	20.0	21.2		ug/L		106	73 - 122
1,2,4-Trichlorobenzene	20.0	16.2		ug/L		81	69 - 130
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		102	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/L		97	62 - 128
1,2-Dibromoethane	20.0	20.3		ug/L		101	77 - 121
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 119
1,2-Dichloroethane	20.0	21.4		ug/L		107	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55696/5

Matrix: Water

Analysis Batch: 55696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.0		ug/L		105	78 - 122
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	75 - 124
1,3-Dichlorobenzene	20.0	20.1		ug/L		100	80 - 119
1,3-Dichloropropane	20.0	20.5		ug/L		102	80 - 119
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	79 - 118
2,2-Dichloropropane	20.0	18.6		ug/L		93	60 - 139
2-Butanone	150	173		ug/L		115	56 - 143
2-Chlorotoluene	20.0	20.0		ug/L		100	79 - 122
2-Hexanone	100	119		ug/L		119	57 - 139
4-Chlorotoluene	20.0	20.7		ug/L		104	78 - 122
4-Methyl-2-pentanone	100	115		ug/L		115	67 - 130
Acetone	150	135		ug/L		90	39 - 160
Acrolein	150	116		ug/L		78	39 - 155
Acrylonitrile	100	101		ug/L		101	63 - 135
Benzene	20.0	19.9		ug/L		99	42 - 138
Bromobenzene	20.0	21.1		ug/L		105	80 - 120
Bromochloromethane	20.0	18.7		ug/L		93	78 - 123
Bromodichloromethane	20.0	21.0		ug/L		105	79 - 125
Bromoform	20.0	17.9		ug/L		90	66 - 130
Bromomethane	20.0	14.2		ug/L		71	53 - 141
Carbon disulfide	20.0	17.1	M	ug/L		86	64 - 133
Carbon tetrachloride	20.0	19.1		ug/L		96	72 - 136
Chlorobenzene	20.0	19.8		ug/L		99	82 - 118
Chloroethane	20.0	14.4		ug/L		72	60 - 138
Chloroform	20.0	20.4		ug/L		102	79 - 124
Chloromethane	20.0	15.5		ug/L		78	50 - 139
cis-1,2-Dichloroethene	20.0	20.5		ug/L		102	78 - 123
cis-1,3-Dichloropropene	20.0	21.3		ug/L		107	75 - 124
Dibromochloromethane	20.0	20.0		ug/L		100	74 - 126
Dibromomethane	20.0	20.6		ug/L		103	79 - 123
Dichlorodifluoromethane	20.0	13.1		ug/L		65	32 - 152
Ethylbenzene	20.0	19.9		ug/L		100	79 - 121
Hexachlorobutadiene	20.0	17.0		ug/L		85	66 - 134
Isopropylbenzene	20.0	19.1		ug/L		96	72 - 131
m&p-Xylene	40.0	40.0		ug/L		100	80 - 121
Methyl tertiary butyl ether	20.0	19.2		ug/L		96	71 - 124
Methylene Chloride	20.0	18.3		ug/L		91	74 - 124
Naphthalene	20.0	17.3		ug/L		87	61 - 128
n-Butylbenzene	20.0	20.1		ug/L		101	75 - 128
N-Propylbenzene	20.0	21.5		ug/L		107	76 - 126
o-Xylene	20.0	19.3		ug/L		96	78 - 122
p-Isopropyltoluene	20.0	20.6		ug/L		103	77 - 127
sec-Butylbenzene	20.0	20.5		ug/L		103	77 - 126
Styrene	20.0	20.1		ug/L		101	78 - 123
tert-Butylbenzene	20.0	20.6		ug/L		103	78 - 124
Tetrachloroethene	20.0	16.8		ug/L		84	74 - 129
Toluene	20.0	19.6		ug/L		98	80 - 121
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	75 - 124
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55696/5

Matrix: Water

Analysis Batch: 55696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.1		ug/L		100	79 - 123
Trichlorofluoromethane	20.0	16.4		ug/L		82	65 - 141
Vinyl chloride	20.0	15.9		ug/L		80	58 - 137
Xylenes, Total	60.0	59.3		ug/L		99	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: LCS 410-55696/6

Matrix: Water

Analysis Batch: 55696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	116		ug/L		116	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: 410-16798-5 MS

Matrix: Water

Analysis Batch: 55696

Client Sample ID: GW032-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.50	U	20.0	19.1		ug/L		96	78 - 124
1,1,1-Trichloroethane	0.50	U	20.0	21.0		ug/L		105	74 - 131
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.2		ug/L		101	71 - 121
1,1,2-Trichloroethane	0.50	U	20.0	21.2		ug/L		106	80 - 119
1,1-Dichloroethane	0.50	U	20.0	21.7		ug/L		109	77 - 125
1,1-Dichloroethene	0.50	U	20.0	21.5		ug/L		107	71 - 131
1,1-Dichloropropene	0.50	U	20.0	22.6		ug/L		113	79 - 125
1,2,3-Trichlorobenzene	1.0	U	20.0	16.6		ug/L		83	69 - 129
1,2,3-Trichloropropane	0.50	U	20.0	21.3		ug/L		107	73 - 122
1,2,4-Trichlorobenzene	1.0	U Q	20.0	16.5		ug/L		83	69 - 130
1,2,4-Trimethylbenzene	2.0	U	20.0	21.6		ug/L		108	76 - 124
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	18.9		ug/L		95	62 - 128
1,2-Dibromoethane	0.50	U	20.0	20.4		ug/L		102	77 - 121
1,2-Dichlorobenzene	0.50	U	20.0	19.9		ug/L		99	80 - 119
1,2-Dichloroethane	0.50	U	20.0	22.8		ug/L		114	73 - 128
1,2-Dichloropropane	0.50	U	20.0	22.0		ug/L		110	78 - 122
1,3,5-Trimethylbenzene	1.0	U	20.0	21.7		ug/L		109	75 - 124
1,3-Dichlorobenzene	0.50	U	20.0	21.1		ug/L		106	80 - 119
1,3-Dichloropropane	0.50	U	20.0	20.5		ug/L		103	80 - 119

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16798-5 MS

Matrix: Water

Analysis Batch: 55696

Client Sample ID: GW032-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.50	U	20.0	21.1		ug/L		106	79 - 118
2,2-Dichloropropane	0.50	U	20.0	21.3		ug/L		107	60 - 139
2-Butanone	1.0	U Q	150	167		ug/L		111	56 - 143
2-Chlorotoluene	0.50	U	20.0	20.9		ug/L		104	79 - 122
2-Hexanone	1.0	U Q	100	116		ug/L		116	57 - 139
4-Chlorotoluene	0.50	U	20.0	21.9		ug/L		110	78 - 122
4-Methyl-2-pentanone	1.0	U Q	100	111		ug/L		111	67 - 130
Acetone	2.0	U	150	138		ug/L		92	39 - 160
Acrolein	5.0	U	150	115		ug/L		77	39 - 155
Acrylonitrile	1.0	U	100	99.7		ug/L		100	63 - 135
Benzene	0.50	U	20.0	21.6		ug/L		108	42 - 138
Bromobenzene	0.50	U	20.0	21.7		ug/L		109	80 - 120
Bromochloromethane	0.50	U	20.0	19.6		ug/L		98	78 - 123
Bromodichloromethane	0.50	U	20.0	22.1		ug/L		111	79 - 125
Bromoform	2.0	U	20.0	18.1		ug/L		90	66 - 130
Bromomethane	0.50	U	20.0	15.5		ug/L		78	53 - 141
Carbon disulfide	0.50	U	20.0	19.5		ug/L		97	64 - 133
Carbon tetrachloride	0.50	U	20.0	22.0		ug/L		110	72 - 136
Chlorobenzene	0.50	U	20.0	20.8		ug/L		104	82 - 118
Chloroethane	0.50	U	20.0	16.1		ug/L		80	60 - 138
Chloroform	0.50	U	20.0	21.9		ug/L		109	79 - 124
Chloromethane	0.50	U	20.0	16.5		ug/L		82	50 - 139
cis-1,2-Dichloroethene	0.50	U	20.0	22.3		ug/L		112	78 - 123
cis-1,3-Dichloropropene	0.50	U	20.0	21.4		ug/L		107	75 - 124
Dibromochloromethane	0.50	U	20.0	20.3		ug/L		102	74 - 126
Dibromomethane	0.50	U	20.0	21.1		ug/L		105	79 - 123
Dichlorodifluoromethane	0.50	U	20.0	14.0		ug/L		70	32 - 152
Ethylbenzene	0.80	U	20.0	21.4		ug/L		107	79 - 121
Hexachlorobutadiene	4.0	U Q	20.0	18.8		ug/L		94	66 - 134
Isopropylbenzene	0.50	U	20.0	20.6		ug/L		103	72 - 131
m&p-Xylene	2.0	U	40.0	42.9		ug/L		107	80 - 121
Methyl tertiary butyl ether	0.50	U	20.0	19.4		ug/L		97	71 - 124
Methylene Chloride	0.50	U	20.0	19.8		ug/L		99	74 - 124
Naphthalene	2.0	U	20.0	17.0		ug/L		85	61 - 128
n-Butylbenzene	0.50	U	20.0	21.7		ug/L		109	75 - 128
N-Propylbenzene	0.50	U	20.0	23.1		ug/L		116	76 - 126
o-Xylene	0.80	U	20.0	20.2		ug/L		101	78 - 122
p-Isopropyltoluene	0.50	U	20.0	22.1		ug/L		110	77 - 127
sec-Butylbenzene	0.50	U	20.0	22.2		ug/L		111	77 - 126
Styrene	0.50	U	20.0	21.3		ug/L		106	78 - 123
tert-Butylbenzene	1.0	U	20.0	21.9		ug/L		110	78 - 124
Tetrachloroethene	0.50	U	20.0	18.5		ug/L		93	74 - 129
Toluene	0.50	U	20.0	20.9		ug/L		105	80 - 121
trans-1,2-Dichloroethene	0.50	U	20.0	21.7		ug/L		109	75 - 124
trans-1,3-Dichloropropene	0.50	U	20.0	21.2		ug/L		106	73 - 127
Trichloroethene	0.50	U	20.0	22.2		ug/L		111	79 - 123
Trichlorofluoromethane	0.50	U	20.0	19.5		ug/L		97	65 - 141
Vinyl chloride	0.50	U	20.0	17.6		ug/L		88	58 - 137
Xylenes, Total	2.0	U	60.0	63.1		ug/L		105	79 - 121

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: 410-16798-5 MS
Matrix: Water
Analysis Batch: 55696

Client Sample ID: GW032-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	2.0	U	100	109		ug/L		109	54 - 146

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	92		85 - 114
Dibromofluoromethane (Surr)	94		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: 410-16798-5 MSD
Matrix: Water
Analysis Batch: 55696

Client Sample ID: GW032-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	0.50	U	20.0	19.4		ug/L		97	78 - 124	1	20
1,1,1-Trichloroethane	0.50	U	20.0	20.7		ug/L		104	74 - 131	1	20
1,1,2,2-Tetrachloroethane	0.50	U	20.0	20.5		ug/L		103	71 - 121	1	20
1,1,2-Trichloroethane	0.50	U	20.0	21.5		ug/L		107	80 - 119	2	20
1,1-Dichloroethane	0.50	U	20.0	21.7		ug/L		108	77 - 125	0	20
1,1-Dichloroethene	0.50	U	20.0	21.2		ug/L		106	71 - 131	1	20
1,1-Dichloropropene	0.50	U	20.0	22.9		ug/L		115	79 - 125	1	20
1,2,3-Trichlorobenzene	1.0	U	20.0	17.0		ug/L		85	69 - 129	2	20
1,2,3-Trichloropropane	0.50	U	20.0	21.2		ug/L		106	73 - 122	1	20
1,2,4-Trichlorobenzene	1.0	U Q	20.0	16.7		ug/L		83	69 - 130	1	20
1,2,4-Trimethylbenzene	2.0	U	20.0	21.7		ug/L		109	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	1.0	U	20.0	19.1		ug/L		96	62 - 128	1	20
1,2-Dibromoethane	0.50	U	20.0	20.8		ug/L		104	77 - 121	2	20
1,2-Dichlorobenzene	0.50	U	20.0	19.8		ug/L		99	80 - 119	0	20
1,2-Dichloroethane	0.50	U	20.0	22.7		ug/L		113	73 - 128	1	20
1,2-Dichloropropane	0.50	U	20.0	22.5		ug/L		112	78 - 122	2	20
1,3,5-Trimethylbenzene	1.0	U	20.0	21.8		ug/L		109	75 - 124	1	20
1,3-Dichlorobenzene	0.50	U	20.0	21.2		ug/L		106	80 - 119	0	20
1,3-Dichloropropane	0.50	U	20.0	20.9		ug/L		104	80 - 119	2	20
1,4-Dichlorobenzene	0.50	U	20.0	21.4		ug/L		107	79 - 118	1	20
2,2-Dichloropropane	0.50	U	20.0	21.2		ug/L		106	60 - 139	0	20
2-Butanone	1.0	U Q	150	172		ug/L		115	56 - 143	3	20
2-Chlorotoluene	0.50	U	20.0	21.2		ug/L		106	79 - 122	1	20
2-Hexanone	1.0	U Q	100	120		ug/L		120	57 - 139	3	20
4-Chlorotoluene	0.50	U	20.0	21.9		ug/L		110	78 - 122	0	20
4-Methyl-2-pentanone	1.0	U Q	100	114		ug/L		114	67 - 130	2	20
Acetone	2.0	U	150	122		ug/L		81	39 - 160	12	20
Acrolein	5.0	U	150	110		ug/L		73	39 - 155	5	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16798-5 MSD

Matrix: Water

Analysis Batch: 55696

Client Sample ID: GW032-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrylonitrile	1.0	U	100	102		ug/L		102	63 - 135	2	20
Benzene	0.50	U	20.0	21.6		ug/L		108	42 - 138	0	20
Bromobenzene	0.50	U	20.0	22.0		ug/L		110	80 - 120	1	20
Bromochloromethane	0.50	U	20.0	19.6		ug/L		98	78 - 123	0	20
Bromodichloromethane	0.50	U	20.0	22.2		ug/L		111	79 - 125	0	20
Bromoform	2.0	U	20.0	18.2		ug/L		91	66 - 130	1	20
Bromomethane	0.50	U	20.0	15.5		ug/L		78	53 - 141	0	20
Carbon disulfide	0.50	U	20.0	19.4		ug/L		97	64 - 133	0	20
Carbon tetrachloride	0.50	U	20.0	21.8		ug/L		109	72 - 136	1	20
Chlorobenzene	0.50	U	20.0	21.1		ug/L		105	82 - 118	1	20
Chloroethane	0.50	U	20.0	16.2		ug/L		81	60 - 138	0	20
Chloroform	0.50	U	20.0	22.1		ug/L		111	79 - 124	1	20
Chloromethane	0.50	U	20.0	16.9		ug/L		84	50 - 139	2	20
cis-1,2-Dichloroethene	0.50	U	20.0	22.4		ug/L		112	78 - 123	0	20
cis-1,3-Dichloropropene	0.50	U	20.0	21.8		ug/L		109	75 - 124	2	20
Dibromochloromethane	0.50	U	20.0	20.8		ug/L		104	74 - 126	2	20
Dibromomethane	0.50	U	20.0	21.1		ug/L		105	79 - 123	0	20
Dichlorodifluoromethane	0.50	U	20.0	13.8		ug/L		69	32 - 152	2	20
Ethylbenzene	0.80	U	20.0	21.6		ug/L		108	79 - 121	1	20
Hexachlorobutadiene	4.0	U Q	20.0	18.9		ug/L		94	66 - 134	0	20
Isopropylbenzene	0.50	U	20.0	20.8		ug/L		104	72 - 131	1	20
m&p-Xylene	2.0	U	40.0	43.2		ug/L		108	80 - 121	1	20
Methyl tertiary butyl ether	0.50	U	20.0	19.3		ug/L		97	71 - 124	0	20
Methylene Chloride	0.50	U	20.0	19.5		ug/L		98	74 - 124	1	20
Naphthalene	2.0	U	20.0	17.4		ug/L		87	61 - 128	2	20
n-Butylbenzene	0.50	U	20.0	21.8		ug/L		109	75 - 128	0	20
N-Propylbenzene	0.50	U	20.0	23.1		ug/L		116	76 - 126	0	20
o-Xylene	0.80	U	20.0	20.5		ug/L		102	78 - 122	2	20
p-Isopropyltoluene	0.50	U	20.0	22.4		ug/L		112	77 - 127	1	20
sec-Butylbenzene	0.50	U	20.0	22.4		ug/L		112	77 - 126	1	20
Styrene	0.50	U	20.0	21.6		ug/L		108	78 - 123	1	20
tert-Butylbenzene	1.0	U	20.0	22.3		ug/L		111	78 - 124	2	20
Tetrachloroethene	0.50	U	20.0	18.7		ug/L		93	74 - 129	1	20
Toluene	0.50	U	20.0	21.3		ug/L		106	80 - 121	2	20
trans-1,2-Dichloroethene	0.50	U	20.0	21.5		ug/L		107	75 - 124	1	20
trans-1,3-Dichloropropene	0.50	U	20.0	21.6		ug/L		108	73 - 127	2	20
Trichloroethene	0.50	U	20.0	22.2		ug/L		111	79 - 123	0	20
Trichlorofluoromethane	0.50	U	20.0	19.1		ug/L		96	65 - 141	2	20
Vinyl chloride	0.50	U	20.0	17.8		ug/L		89	58 - 137	2	20
Xylenes, Total	2.0	U	60.0	63.7		ug/L		106	79 - 121	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	97		89 - 112

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-16798-5 MSD

Matrix: Water

Analysis Batch: 55696

Client Sample ID: GW032-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	2.0	U	100	103		ug/L		103	54 - 146	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		81 - 118								
4-Bromofluorobenzene (Surr)	93		85 - 114								
Dibromofluoromethane (Surr)	95		80 - 119								
Toluene-d8 (Surr)	96		89 - 112								

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-55438/1-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55438

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/17/20 00:09	10/19/20 19:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	95		46 - 136					10/17/20 00:09	10/19/20 19:06	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136					10/17/20 00:09	10/19/20 19:06	1

Lab Sample ID: LCS 410-55438/2-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.104		ug/L		81	60 - 140	4	20
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136						

Lab Sample ID: LCSD 410-55438/3-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55438

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.108		ug/L		85	60 - 140	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136						

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 410-55440/1-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55440

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/20/20 04:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136	10/17/20 00:41	10/20/20 04:39	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 00:41	10/20/20 04:39	1

Lab Sample ID: LCS 410-55440/2-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55440

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.116		ug/L		91	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	88		46 - 136
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136

Lab Sample ID: LCSD 410-55440/3-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55440

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.115		ug/L		90	60 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	93		46 - 136
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136

Lab Sample ID: 410-16798-5 MS

Matrix: Water

Analysis Batch: 56079

Client Sample ID: GW032-204

Prep Type: Total/NA

Prep Batch: 55440

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.019	U	0.123	0.118		ug/L		96	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	91		46 - 136
1,1,2,2-Tetrachloroethane (2C)	87		46 - 136

Lab Sample ID: 410-16798-5 MSD

Matrix: Water

Analysis Batch: 56079

Client Sample ID: GW032-204

Prep Type: Total/NA

Prep Batch: 55440

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.019	U	0.123	0.115		ug/L		93	60 - 140	3	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 410-16798-5 MSD

Matrix: Water

Analysis Batch: 56079

Client Sample ID: GW032-204

Prep Type: Total/NA

Prep Batch: 55440

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136

Lab Sample ID: MB 410-55443/1-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55443

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/19/20 19:56	1
Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136	10/17/20 01:12	10/19/20 19:56	1			
1,1,2,2-Tetrachloroethane (2C)	90		46 - 136	10/17/20 01:12	10/19/20 19:56	1			

Lab Sample ID: LCS 410-55443/2-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55443

Analysis Date: 06/20				Trip Date: 06/19					
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)			0.128	0.0948		ug/L		74	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	90		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	85		46 - 136						

Lab Sample ID: LCSD 410-55443/3-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55443

Analysis Date: 5/5/20

Rep Date: 5/5/20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.0958		ug/L	-	75	60 - 140	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	93		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-55074/4

Matrix: Water

Analysis Batch: 55074

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/16/20 07:43	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/16/20 07:43	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/16/20 07:43	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-55074/3

Matrix: Water

Analysis Batch: 55074

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.05		mg/L		94	90 - 110
Chloride	3.00	2.85		mg/L		95	90 - 110
Sulfate	7.50	7.29		mg/L		97	90 - 110

Lab Sample ID: 410-16798-8 MS

Matrix: Water

Analysis Batch: 55314

Client Sample ID: GW057-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	18	J1 D	10.0	25.2	J1 D	mg/L		73	90 - 110
Sulfate	35	D	25.0	59.3	D	mg/L		96	90 - 110

Lab Sample ID: 410-16798-8 DU

Matrix: Water

Analysis Batch: 55314

Client Sample ID: GW057-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	18	J1 D	18.2	D	mg/L		2	15
Sulfate	35	D	35.1	D	mg/L		0.5	15

Lab Sample ID: MB 410-61119/4

Matrix: Water

Analysis Batch: 61119

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		11/02/20 14:12	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		11/02/20 14:12	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/02/20 14:12	1

Lab Sample ID: LCS 410-61119/3

Matrix: Water

Analysis Batch: 61119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.50		mg/L		100	90 - 110
Chloride	3.00	2.91		mg/L		97	90 - 110
Sulfate	7.50	7.65		mg/L		102	90 - 110

Lab Sample ID: 410-16798-1 MS

Matrix: Water

Analysis Batch: 61119

Client Sample ID: GW019-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	1.5	J D	25.0	26.6	D	mg/L		100	90 - 110

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 410-16798-1 DU

Matrix: Water

Analysis Batch: 61119

Client Sample ID: GW019-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromide	1.5	J D	1.49	J D	mg/L		2	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-54263/1-A

Matrix: Water

Analysis Batch: 56334

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54263

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.0429	J	0.21	0.10	0.041	mg/L		10/20/20 07:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 07:36	1

Lab Sample ID: LCS 410-54263/2-A

Matrix: Water

Analysis Batch: 56334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.441		mg/L		110	87 - 115
Manganese	0.0200	0.0213		mg/L		107	90 - 114

Lab Sample ID: MB 410-54268/1-A

Matrix: Water

Analysis Batch: 55305

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54268

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/16/20 12:26	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/16/20 12:26	1

Lab Sample ID: LCS 410-54268/2-A

Matrix: Water

Analysis Batch: 55305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.433		mg/L		108	87 - 115
Manganese	0.0200	0.0207		mg/L		104	90 - 114

Lab Sample ID: MB 410-54271/1-A

Matrix: Water

Analysis Batch: 54978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54271

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 18:46	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 18:46	1

Lab Sample ID: LCS 410-54271/2-A

Matrix: Water

Analysis Batch: 54978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.405		mg/L		101	87 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-54271/2-A

Matrix: Water

Analysis Batch: 54978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.0200	0.0201		mg/L		101	90 - 114

Lab Sample ID: MB 410-53471/1-A

Matrix: Water

Analysis Batch: 55292

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53471

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/16/20 11:39	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/16/20 11:39	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/16/20 11:39	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/16/20 11:39	1

Lab Sample ID: LCS 410-53471/2-A

Matrix: Water

Analysis Batch: 55292

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53471

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.415		mg/L		104	87 - 113
Magnesium	0.200	0.209		mg/L		105	85 - 113
Potassium	5.60	5.85		mg/L		105	86 - 114
Sodium	2.00	2.01		mg/L		101	87 - 115

Lab Sample ID: 410-16798-5 MS

Matrix: Water

Analysis Batch: 55305

Client Sample ID: GW032-204

Prep Type: Dissolved

Prep Batch: 54268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U	0.402	0.434		mg/L		108	87 - 115
Manganese	0.0052	U	0.0200	0.0201		mg/L		101	90 - 114

Lab Sample ID: 410-16798-5 MSD

Matrix: Water

Analysis Batch: 55305

Client Sample ID: GW032-204

Prep Type: Dissolved

Prep Batch: 54268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.10	U	0.402	0.409		mg/L		102	87 - 115	6	20
Manganese	0.0052	U	0.0200	0.0203		mg/L		102	90 - 114	1	20

Lab Sample ID: 410-16798-5 DU

Matrix: Water

Analysis Batch: 55305

Client Sample ID: GW032-204

Prep Type: Dissolved

Prep Batch: 54268

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.10	U	0.10	U	mg/L				NC	20
Manganese	0.0052	U	0.0052	U	mg/L				NC	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-53449/1-A

Matrix: Water

Analysis Batch: 54149

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53449

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 16:40	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 16:40	1

Lab Sample ID: LCS 410-53449/2-A

Matrix: Water

Analysis Batch: 54149

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0568		mg/L		95	84 - 116
Lead	0.0300	0.0299		mg/L		100	88 - 115

Lab Sample ID: 410-16798-5 MS

Matrix: Water

Analysis Batch: 54149

Client Sample ID: GW032-204

Prep Type: Total/NA

Prep Batch: 53449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00068	J	0.0600	0.0594		mg/L		98	84 - 116
Lead	0.00025	U	0.0300	0.0299		mg/L		100	88 - 115

Lab Sample ID: 410-16798-5 MSD

Matrix: Water

Analysis Batch: 54149

Client Sample ID: GW032-204

Prep Type: Total/NA

Prep Batch: 53449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00068	J	0.0600	0.0575		mg/L		95	84 - 116	3	20
Lead	0.00025	U	0.0300	0.0291		mg/L		97	88 - 115	3	20

Lab Sample ID: 410-16798-5 DU

Matrix: Water

Analysis Batch: 54149

Client Sample ID: GW032-204

Prep Type: Total/NA

Prep Batch: 53449

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.00068	J	0.000710	J	mg/L		4	20
Lead	0.00025	U	0.0000710	J	mg/L		NC	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-54353/33

Matrix: Water

Analysis Batch: 54353

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 21:48	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 21:48	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 21:48	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: MB 410-54353/62

Matrix: Water

Analysis Batch: 54353

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 01:14	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 01:14	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/14/20 01:14	1

Lab Sample ID: LCS 410-54353/34

Matrix: Water

Analysis Batch: 54353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	166		mg/L		88	82 - 106

Lab Sample ID: LCS 410-54353/63

Matrix: Water

Analysis Batch: 54353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	170		mg/L		90	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-61131/76

Matrix: Water

Analysis Batch: 61131

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/01/20 12:59	1

Lab Sample ID: LCS 410-61131/77

Matrix: Water

Analysis Batch: 61131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.64		mg/L		105	90 - 110

Lab Sample ID: 410-16798-1 MS

Matrix: Water

Analysis Batch: 61131

Client Sample ID: GW019-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.5	J1	1.00	3.34	J1	mg/L		82	90 - 110

Lab Sample ID: 410-16798-5 MS

Matrix: Water

Analysis Batch: 61131

Client Sample ID: GW032-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.3		1.00	3.25		mg/L		99	90 - 110

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 410-16798-1 DU

Matrix: Water

Analysis Batch: 61131

Client Sample ID: GW019-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	2.5	J1	2.39		mg/L	-	5	10

Lab Sample ID: 410-16798-5 DU

Matrix: Water

Analysis Batch: 61131

Client Sample ID: GW032-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	2.3		2.37		mg/L	-	5	10

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

GC/MS VOA

Analysis Batch: 55696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	8260C DOD	
410-16798-2	GW040-204	Total/NA	Water	8260C DOD	
410-16798-3	GW045-204	Total/NA	Water	8260C DOD	
410-16798-4	TB204-23	Total/NA	Water	8260C DOD	
410-16798-5	GW032-204	Total/NA	Water	8260C DOD	
410-16798-6	TB204-24	Total/NA	Water	8260C DOD	
410-16798-7	GW055-204	Total/NA	Water	8260C DOD	
410-16798-8	GW057-204	Total/NA	Water	8260C DOD	
410-16798-9	GW058-204	Total/NA	Water	8260C DOD	
410-16798-10	TB204-25	Total/NA	Water	8260C DOD	
410-16798-11	GW042-204	Total/NA	Water	8260C DOD	
410-16798-12	GW041-204	Total/NA	Water	8260C DOD	
410-16798-13	GW034-204	Total/NA	Water	8260C DOD	
410-16798-14	TB204-26	Total/NA	Water	8260C DOD	
410-16798-15	GW106-204	Total/NA	Water	8260C DOD	
410-16798-16	GW106-604	Total/NA	Water	8260C DOD	
410-16798-17	GW093-204	Total/NA	Water	8260C DOD	
410-16798-18	TB204-27	Total/NA	Water	8260C DOD	
MB 410-55696/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-55696/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-55696/6	Lab Control Sample	Total/NA	Water	8260C DOD	
410-16798-5 MS	GW032-204	Total/NA	Water	8260C DOD	
410-16798-5 MS	GW032-204	Total/NA	Water	8260C DOD	
410-16798-5 MSD	GW032-204	Total/NA	Water	8260C DOD	
410-16798-5 MSD	GW032-204	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 55438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	8011	
410-16798-3	GW045-204	Total/NA	Water	8011	
410-16798-4	TB204-23	Total/NA	Water	8011	
MB 410-55438/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55438/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55438/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 55440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-5	GW032-204	Total/NA	Water	8011	
410-16798-6	TB204-24	Total/NA	Water	8011	
410-16798-7	GW055-204	Total/NA	Water	8011	
410-16798-8	GW057-204	Total/NA	Water	8011	
410-16798-9	GW058-204	Total/NA	Water	8011	
410-16798-10	TB204-25	Total/NA	Water	8011	
410-16798-11	GW042-204	Total/NA	Water	8011	
410-16798-12	GW041-204	Total/NA	Water	8011	
410-16798-13	GW034-204	Total/NA	Water	8011	
410-16798-14	TB204-26	Total/NA	Water	8011	
410-16798-15	GW106-204	Total/NA	Water	8011	
410-16798-16	GW106-604	Total/NA	Water	8011	

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

GC Semi VOA (Continued)

Prep Batch: 55440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-17	GW093-204	Total/NA	Water	8011	
410-16798-18	TB204-27	Total/NA	Water	8011	
MB 410-55440/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55440/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55440/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-16798-5 MS	GW032-204	Total/NA	Water	8011	
410-16798-5 MSD	GW032-204	Total/NA	Water	8011	

Prep Batch: 55443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-2	GW040-204	Total/NA	Water	8011	
MB 410-55443/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55443/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55443/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 56028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	8011	55438
410-16798-2	GW040-204	Total/NA	Water	8011	55443
410-16798-3	GW045-204	Total/NA	Water	8011	55438
410-16798-4	TB204-23	Total/NA	Water	8011	55438
MB 410-55438/1-A	Method Blank	Total/NA	Water	8011	55438
MB 410-55443/1-A	Method Blank	Total/NA	Water	8011	55443
LCS 410-55438/2-A	Lab Control Sample	Total/NA	Water	8011	55438
LCS 410-55443/2-A	Lab Control Sample	Total/NA	Water	8011	55443
LCSD 410-55438/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55438
LCSD 410-55443/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55443

Analysis Batch: 56079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-5	GW032-204	Total/NA	Water	8011	55440
410-16798-6	TB204-24	Total/NA	Water	8011	55440
410-16798-7	GW055-204	Total/NA	Water	8011	55440
410-16798-8	GW057-204	Total/NA	Water	8011	55440
410-16798-9	GW058-204	Total/NA	Water	8011	55440
410-16798-10	TB204-25	Total/NA	Water	8011	55440
410-16798-11	GW042-204	Total/NA	Water	8011	55440
410-16798-12	GW041-204	Total/NA	Water	8011	55440
410-16798-13	GW034-204	Total/NA	Water	8011	55440
410-16798-14	TB204-26	Total/NA	Water	8011	55440
410-16798-15	GW106-204	Total/NA	Water	8011	55440
410-16798-16	GW106-604	Total/NA	Water	8011	55440
410-16798-17	GW093-204	Total/NA	Water	8011	55440
410-16798-18	TB204-27	Total/NA	Water	8011	55440
MB 410-55440/1-A	Method Blank	Total/NA	Water	8011	55440
LCS 410-55440/2-A	Lab Control Sample	Total/NA	Water	8011	55440
LCSD 410-55440/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55440
410-16798-5 MS	GW032-204	Total/NA	Water	8011	55440
410-16798-5 MSD	GW032-204	Total/NA	Water	8011	55440

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

HPLC/IC

Analysis Batch: 55074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-55074/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55074/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 55314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-2	GW040-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-2	GW040-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-3	GW045-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-5	GW032-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-7	GW055-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-7	GW055-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-8	GW057-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-9	GW058-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-11	GW042-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-12	GW041-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-13	GW034-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-13	GW034-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-15	GW106-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-15	GW106-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-16	GW106-604	Total/NA	Water	EPA 300.0 R2.1	
410-16798-16	GW106-604	Total/NA	Water	EPA 300.0 R2.1	
410-16798-17	GW093-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-17	GW093-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-8 MS	GW057-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-8 DU	GW057-204	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 61119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-3	GW045-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-8	GW057-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-9	GW058-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-61119/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-61119/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-16798-1 MS	GW019-204	Total/NA	Water	EPA 300.0 R2.1	
410-16798-1 DU	GW019-204	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 53449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	3020A	
410-16798-2	GW040-204	Total/NA	Water	3020A	
410-16798-3	GW045-204	Total/NA	Water	3020A	
410-16798-5	GW032-204	Total/NA	Water	3020A	
410-16798-7	GW055-204	Total/NA	Water	3020A	
410-16798-8	GW057-204	Total/NA	Water	3020A	
410-16798-9	GW058-204	Total/NA	Water	3020A	
410-16798-11	GW042-204	Total/NA	Water	3020A	
410-16798-12	GW041-204	Total/NA	Water	3020A	

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Metals (Continued)

Prep Batch: 53449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-13	GW034-204	Total/NA	Water	3020A	
410-16798-15	GW106-204	Total/NA	Water	3020A	
410-16798-16	GW106-604	Total/NA	Water	3020A	
410-16798-17	GW093-204	Total/NA	Water	3020A	
MB 410-53449/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53449/2-A	Lab Control Sample	Total/NA	Water	3020A	
410-16798-5 MS	GW032-204	Total/NA	Water	3020A	
410-16798-5 MSD	GW032-204	Total/NA	Water	3020A	
410-16798-5 DU	GW032-204	Total/NA	Water	3020A	

Prep Batch: 53471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total Recoverable	Water	3005A	
410-16798-2	GW040-204	Total Recoverable	Water	3005A	
410-16798-3	GW045-204	Total Recoverable	Water	3005A	
410-16798-5	GW032-204	Total Recoverable	Water	3005A	
410-16798-7	GW055-204	Total Recoverable	Water	3005A	
410-16798-8	GW057-204	Total Recoverable	Water	3005A	
410-16798-9	GW058-204	Total Recoverable	Water	3005A	
410-16798-11	GW042-204	Total Recoverable	Water	3005A	
410-16798-12	GW041-204	Total Recoverable	Water	3005A	
410-16798-13	GW034-204	Total Recoverable	Water	3005A	
410-16798-15	GW106-204	Total Recoverable	Water	3005A	
410-16798-16	GW106-604	Total Recoverable	Water	3005A	
410-16798-17	GW093-204	Total Recoverable	Water	3005A	
MB 410-53471/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53471/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 54149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	6020A	53449
410-16798-2	GW040-204	Total/NA	Water	6020A	53449
410-16798-3	GW045-204	Total/NA	Water	6020A	53449
410-16798-5	GW032-204	Total/NA	Water	6020A	53449
410-16798-7	GW055-204	Total/NA	Water	6020A	53449
410-16798-8	GW057-204	Total/NA	Water	6020A	53449
410-16798-9	GW058-204	Total/NA	Water	6020A	53449
410-16798-11	GW042-204	Total/NA	Water	6020A	53449
410-16798-12	GW041-204	Total/NA	Water	6020A	53449
410-16798-13	GW034-204	Total/NA	Water	6020A	53449
410-16798-15	GW106-204	Total/NA	Water	6020A	53449
410-16798-16	GW106-604	Total/NA	Water	6020A	53449
410-16798-17	GW093-204	Total/NA	Water	6020A	53449
MB 410-53449/1-A	Method Blank	Total/NA	Water	6020A	53449
LCS 410-53449/2-A	Lab Control Sample	Total/NA	Water	6020A	53449
410-16798-5 MS	GW032-204	Total/NA	Water	6020A	53449
410-16798-5 MSD	GW032-204	Total/NA	Water	6020A	53449
410-16798-5 DU	GW032-204	Total/NA	Water	6020A	53449

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Metals

Prep Batch: 54263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-13	GW034-204	Dissolved	Water	Non-Digest Prep	
410-16798-16	GW106-604	Dissolved	Water	Non-Digest Prep	
410-16798-17	GW093-204	Dissolved	Water	Non-Digest Prep	
MB 410-54263/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54263/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 54268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-2	GW040-204	Dissolved	Water	Non-Digest Prep	
410-16798-3	GW045-204	Dissolved	Water	Non-Digest Prep	
410-16798-5	GW032-204	Dissolved	Water	Non-Digest Prep	
410-16798-8	GW057-204	Dissolved	Water	Non-Digest Prep	
410-16798-9	GW058-204	Dissolved	Water	Non-Digest Prep	
410-16798-11	GW042-204	Dissolved	Water	Non-Digest Prep	
410-16798-12	GW041-204	Dissolved	Water	Non-Digest Prep	
410-16798-15	GW106-204	Dissolved	Water	Non-Digest Prep	
MB 410-54268/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54268/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-16798-5 MS	GW032-204	Dissolved	Water	Non-Digest Prep	
410-16798-5 MSD	GW032-204	Dissolved	Water	Non-Digest Prep	
410-16798-5 DU	GW032-204	Dissolved	Water	Non-Digest Prep	

Prep Batch: 54271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Dissolved	Water	Non-Digest Prep	
410-16798-7	GW055-204	Dissolved	Water	Non-Digest Prep	
MB 410-54271/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54271/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 54978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Dissolved	Water	6010C	54271
410-16798-7	GW055-204	Dissolved	Water	6010C	54271
MB 410-54271/1-A	Method Blank	Total/NA	Water	6010C	54271
LCS 410-54271/2-A	Lab Control Sample	Total/NA	Water	6010C	54271

Analysis Batch: 55292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total Recoverable	Water	6010C	53471
410-16798-2	GW040-204	Total Recoverable	Water	6010C	53471
410-16798-3	GW045-204	Total Recoverable	Water	6010C	53471
410-16798-5	GW032-204	Total Recoverable	Water	6010C	53471
410-16798-7	GW055-204	Total Recoverable	Water	6010C	53471
410-16798-8	GW057-204	Total Recoverable	Water	6010C	53471
410-16798-9	GW058-204	Total Recoverable	Water	6010C	53471
410-16798-11	GW042-204	Total Recoverable	Water	6010C	53471
410-16798-12	GW041-204	Total Recoverable	Water	6010C	53471
410-16798-13	GW034-204	Total Recoverable	Water	6010C	53471
410-16798-15	GW106-204	Total Recoverable	Water	6010C	53471
410-16798-16	GW106-604	Total Recoverable	Water	6010C	53471
410-16798-17	GW093-204	Total Recoverable	Water	6010C	53471

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Metals (Continued)

Analysis Batch: 55292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-53471/1-A	Method Blank	Total Recoverable	Water	6010C	53471
LCS 410-53471/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53471

Analysis Batch: 55305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-2	GW040-204	Dissolved	Water	6010C	54268
410-16798-3	GW045-204	Dissolved	Water	6010C	54268
410-16798-5	GW032-204	Dissolved	Water	6010C	54268
410-16798-8	GW057-204	Dissolved	Water	6010C	54268
410-16798-9	GW058-204	Dissolved	Water	6010C	54268
410-16798-11	GW042-204	Dissolved	Water	6010C	54268
410-16798-12	GW041-204	Dissolved	Water	6010C	54268
410-16798-15	GW106-204	Dissolved	Water	6010C	54268
MB 410-54268/1-A	Method Blank	Total/NA	Water	6010C	54268
LCS 410-54268/2-A	Lab Control Sample	Total/NA	Water	6010C	54268
410-16798-5 MS	GW032-204	Dissolved	Water	6010C	54268
410-16798-5 MSD	GW032-204	Dissolved	Water	6010C	54268
410-16798-5 DU	GW032-204	Dissolved	Water	6010C	54268

Analysis Batch: 56334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-13	GW034-204	Dissolved	Water	6010C	54263
410-16798-16	GW106-604	Dissolved	Water	6010C	54263
410-16798-17	GW093-204	Dissolved	Water	6010C	54263
MB 410-54263/1-A	Method Blank	Total/NA	Water	6010C	54263
LCS 410-54263/2-A	Lab Control Sample	Total/NA	Water	6010C	54263

General Chemistry

Analysis Batch: 54353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	2320B-2011	
410-16798-2	GW040-204	Total/NA	Water	2320B-2011	
410-16798-3	GW045-204	Total/NA	Water	2320B-2011	
410-16798-5	GW032-204	Total/NA	Water	2320B-2011	
410-16798-7	GW055-204	Total/NA	Water	2320B-2011	
410-16798-8	GW057-204	Total/NA	Water	2320B-2011	
410-16798-9	GW058-204	Total/NA	Water	2320B-2011	
410-16798-11	GW042-204	Total/NA	Water	2320B-2011	
410-16798-12	GW041-204	Total/NA	Water	2320B-2011	
410-16798-13	GW034-204	Total/NA	Water	2320B-2011	
410-16798-15	GW106-204	Total/NA	Water	2320B-2011	
410-16798-16	GW106-604	Total/NA	Water	2320B-2011	
410-16798-17	GW093-204	Total/NA	Water	2320B-2011	
MB 410-54353/33	Method Blank	Total/NA	Water	2320B-2011	
MB 410-54353/62	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-54353/34	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-54353/63	Lab Control Sample	Total/NA	Water	2320B-2011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

General Chemistry

Analysis Batch: 61131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16798-1	GW019-204	Total/NA	Water	353.2	
410-16798-2	GW040-204	Total/NA	Water	353.2	
410-16798-3	GW045-204	Total/NA	Water	353.2	
410-16798-5	GW032-204	Total/NA	Water	353.2	
410-16798-7	GW055-204	Total/NA	Water	353.2	
410-16798-8	GW057-204	Total/NA	Water	353.2	
410-16798-9	GW058-204	Total/NA	Water	353.2	
410-16798-11	GW042-204	Total/NA	Water	353.2	
410-16798-12	GW041-204	Total/NA	Water	353.2	
410-16798-13	GW034-204	Total/NA	Water	353.2	
410-16798-15	GW106-204	Total/NA	Water	353.2	
410-16798-16	GW106-604	Total/NA	Water	353.2	
410-16798-17	GW093-204	Total/NA	Water	353.2	
MB 410-61131/76	Method Blank	Total/NA	Water	353.2	
LCS 410-61131/77	Lab Control Sample	Total/NA	Water	353.2	
410-16798-1 MS	GW019-204	Total/NA	Water	353.2	
410-16798-5 MS	GW032-204	Total/NA	Water	353.2	
410-16798-1 DU	GW019-204	Total/NA	Water	353.2	
410-16798-5 DU	GW032-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW019-204

Lab Sample ID: 410-16798-1

Date Collected: 10/08/20 09:33

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 00:42	TQ4J	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 07:05	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 11:02	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	61119	11/02/20 14:33	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			54271	10/14/20 11:14	UJL8	ELLE
Dissolved	Analysis	6010C		1	54978	10/15/20 19:26	UCIG	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 12:58	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:04	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 00:53	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:02	KGQ6	ELLE

Client Sample ID: GW040-204

Lab Sample ID: 410-16798-2

Date Collected: 10/07/20 09:23

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 01:04	TQ4J	ELLE
Total/NA	Prep	8011			55443	10/17/20 01:12	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 06:15	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 11:21	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 11:39	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 13:27	UPJE	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 13:05	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:08	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 04:03	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:05	KGQ6	ELLE

Client Sample ID: GW045-204

Lab Sample ID: 410-16798-3

Date Collected: 10/08/20 12:19

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 01:26	TQ4J	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 07:22	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 11:57	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	61119	11/02/20 15:46	W5UX	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW045-204

Date Collected: 10/08/20 12:19

Date Received: 10/09/20 10:28

Lab Sample ID: 410-16798-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 13:30	UPJE	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 13:12	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:09	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 03:33	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:06	KGQ6	ELLE

Client Sample ID: TB204-23

Date Collected: 10/08/20 12:00

Date Received: 10/09/20 10:28

Lab Sample ID: 410-16798-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/18/20 20:39	TQ4J	ELLE
Total/NA	Prep	8011			55438	10/17/20 00:09	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 07:39	AC3T	ELLE

Client Sample ID: GW032-204

Date Collected: 10/08/20 08:20

Date Received: 10/09/20 10:28

Lab Sample ID: 410-16798-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/18/20 22:30	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 06:04	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 12:33	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 13:52	UPJE	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 13:08	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 16:44	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 00:37	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:18	KGQ6	ELLE

Client Sample ID: TB204-24

Date Collected: 10/08/20 12:00

Date Received: 10/09/20 10:28

Lab Sample ID: 410-16798-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/18/20 21:02	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 06:21	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW055-204

Lab Sample ID: 410-16798-7

Date Collected: 10/08/20 12:40

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 01:48	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 06:38	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 12:51	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 13:09	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54271	10/14/20 11:14	UJL8	ELLE
Dissolved	Analysis	6010C		1	54978	10/15/20 19:16	UCIG	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 13:01	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:06	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 01:00	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:17	KGQ6	ELLE

Client Sample ID: GW057-204

Lab Sample ID: 410-16798-8

Date Collected: 10/08/20 13:00

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 02:10	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 06:55	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 13:27	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	61119	11/02/20 16:40	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 13:42	UPJE	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 13:18	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:02	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 03:25	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:22	KGQ6	ELLE

Client Sample ID: GW058-204

Lab Sample ID: 410-16798-9

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 02:32	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 07:12	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 14:58	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	61119	11/02/20 17:34	W5UX	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW058-204

Lab Sample ID: 410-16798-9

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 13:33	UPJE	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 12:48	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:01	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 03:48	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:23	KGQ6	ELLE

Client Sample ID: TB204-25

Lab Sample ID: 410-16798-10

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/18/20 21:24	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 08:03	AC3T	ELLE

Client Sample ID: GW042-204

Lab Sample ID: 410-16798-11

Date Collected: 10/08/20 10:30

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 02:54	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 08:20	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 15:34	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 13:23	UPJE	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 12:31	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:21	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 00:45	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:24	KGQ6	ELLE

Client Sample ID: GW041-204

Lab Sample ID: 410-16798-12

Date Collected: 10/08/20 10:15

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 03:16	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 08:37	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW041-204

Lab Sample ID: 410-16798-12

Date Collected: 10/08/20 10:15

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 16:10	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 13:17	UPJE	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 12:35	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:16	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 04:19	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:27	KGQ6	ELLE

Client Sample ID: GW034-204

Lab Sample ID: 410-16798-13

Date Collected: 10/08/20 09:25

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 03:38	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 08:54	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 16:29	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 16:47	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:39	ULJC	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 12:42	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:13	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 03:41	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:29	KGQ6	ELLE

Client Sample ID: TB204-26

Lab Sample ID: 410-16798-14

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/18/20 21:46	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 09:11	AC3T	ELLE

Client Sample ID: GW106-204

Lab Sample ID: 410-16798-15

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 04:00	TQ4J	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW106-204

Lab Sample ID: 410-16798-15

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 09:28	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 17:05	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 17:23	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54268	10/14/20 11:09	UJL8	ELLE
Dissolved	Analysis	6010C		1	55305	10/16/20 13:20	UPJE	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 12:45	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:11	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 01:07	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:30	KGQ6	ELLE

Client Sample ID: GW106-604

Lab Sample ID: 410-16798-16

Date Collected: 10/08/20 11:20

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 04:22	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 09:45	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 18:17	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 18:36	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 09:11	ULJC	ELLE
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 12:38	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:14	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 04:11	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:31	KGQ6	ELLE

Client Sample ID: GW093-204

Lab Sample ID: 410-16798-17

Date Collected: 10/08/20 13:40

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/19/20 04:44	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 10:02	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55314	10/16/20 18:54	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55314	10/16/20 19:12	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 09:08	ULJC	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Client Sample ID: GW093-204

Lab Sample ID: 410-16798-17

Date Collected: 10/08/20 13:40

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			53471	10/12/20 21:12	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55292	10/16/20 12:28	UPJE	ELLE
Total/NA	Prep	3020A			53449	10/12/20 19:08	UJLA	ELLE
Total/NA	Analysis	6020A		1	54149	10/13/20 17:23	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/14/20 03:56	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:32	KGQ6	ELLE

Client Sample ID: TB204-27

Lab Sample ID: 410-16798-18

Date Collected: 10/08/20 12:00

Matrix: Water

Date Received: 10/09/20 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55696	10/18/20 22:08	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 10:19	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16798-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-16798-1	GW019-204	Water	10/08/20 09:33	10/09/20 10:28	
410-16798-2	GW040-204	Water	10/07/20 09:23	10/09/20 10:28	
410-16798-3	GW045-204	Water	10/08/20 12:19	10/09/20 10:28	
410-16798-4	TB204-23	Water	10/08/20 12:00	10/09/20 10:28	
410-16798-5	GW032-204	Water	10/08/20 08:20	10/09/20 10:28	
410-16798-6	TB204-24	Water	10/08/20 12:00	10/09/20 10:28	
410-16798-7	GW055-204	Water	10/08/20 12:40	10/09/20 10:28	
410-16798-8	GW057-204	Water	10/08/20 13:00	10/09/20 10:28	
410-16798-9	GW058-204	Water	10/08/20 12:00	10/09/20 10:28	
410-16798-10	TB204-25	Water	10/08/20 12:00	10/09/20 10:28	
410-16798-11	GW042-204	Water	10/08/20 10:30	10/09/20 10:28	
410-16798-12	GW041-204	Water	10/08/20 10:15	10/09/20 10:28	
410-16798-13	GW034-204	Water	10/08/20 09:25	10/09/20 10:28	
410-16798-14	TB204-26	Water	10/08/20 12:00	10/09/20 10:28	
410-16798-15	GW106-204	Water	10/08/20 11:20	10/09/20 10:28	
410-16798-16	GW106-604	Water	10/08/20 11:20	10/09/20 10:28	
410-16798-17	GW093-204	Water	10/08/20 13:40	10/09/20 10:28	
410-16798-18	TB204-27	Water	10/08/20 12:00	10/09/20 10:28	

Eurofins Lancaster Laboratories Env, LLC



410-16798 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-019-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDS (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM23208)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW019-204	10-9-2020	0933	10	3	—	2	1	1*	1	1	1	—		
2															
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-710 SAMPLER(S): D. Schneelk RELINQUISHED BY: [Signature] DATE: 10-8-2020 TIME: 1630 COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5622 RECEIVED BY: [Signature] DATE: 10-9-20 TIME: 1048 TB204-23 Printed Name and Signature: Chris Stief															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-040-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eest.com EA
Amanda Smith: asmith@eest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cu, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0) (6010C)	Nitrate-Nitrite (353.2) (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (354.2)	Carbon Dioxide (RSK-175) (RSK-175)	Methane (RSK-175)	
1	GW040-204	10-7-2020	0923	10	3	—	2	1	1*	1	1	1				
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 1807B-710

SAMPLER(S):
D. Schmeelk

COURIER AND SHIPPING NUMBER:
FedEx 8155 2826 5622

TB204- 23

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
D. Schmeelk 	10-8-2020	1030			
			Chris Chris Stief	10-9-20	10:42

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-045-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	BTEXN (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Cu, Ni, Mg) (6011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (3543.20B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW045-204	10-8-2020	1219	10	3	1	2	1	1*	1	1	1				
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6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 180TB-710

TB204- 23

SAMPLER(S): D. Schmeelk

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5622

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: D. Schmeelk [Signature]	10-8-2020		Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: [Signature]	10-9-20	10:42

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-23

YEAR: 2020
QUARTER: 4

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDS (8011)	Total As, Pb, Cd, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204-23	10/8/2020	1200	4	2			2								
2																
3																
4	JRL															
5																

Associated with:
GW019-204
GW040-204
GW045-204

SAMPLER(S): J Livingson

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5622

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
J Livingson [Signature]	10/8/2020	1030			
			Chris Stief	10-9-20	10:42

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-032-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)					
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS			
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, Ni, Mg (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (3543.20B)	Carbon Dioxide (MSK-175)	Methane (MSK-175)	(MSK-175)	
1	GW032-204	10-08-2020	0820	24	9	—	6	3	3*	1	1	1	—	Please see Comments for requested MS/MSD analytes			
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6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe																	
SAMPLER(S): <i>G. Beyce</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5611													
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME			
Printed Name and Signature: <i>Gabe Beyce</i>				10-08-2020		1030		Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature: <i>Chris St. RF</i>				10-9-20		10:35			

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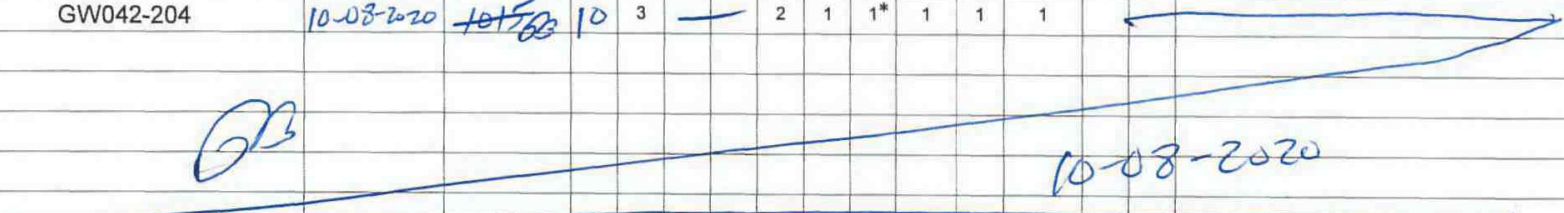
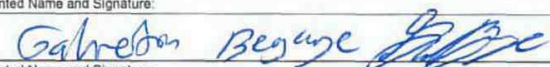
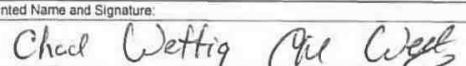
		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-24					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA		YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		QUARTER: 4					
				ANALYSIS REQUIRED (Specify number of bottles)									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2260C)	BTEXN (2260C)	EDB (2260C)	Total As, Pb, Cd, K, Na, Mg (2020A/2010C)	Dissolved Fe, Mn (2020A/2010C)	Chloride, bromide, sulfate (2010C)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	COMMENTS
1	TB204-24	10/8/2020	11:20 AM	4	2	2	2						
2													
3													
4													
5	JRL												
Associated with: GW 032-204													
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5611									
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME		
Printed Name and Signature: J Livingston				10/8/2020	11:30	Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature: Chris Stief				10-9-20	10:35		

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD												COC NUMBER COC-055-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020		QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Disolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (5M2320B)	Metane (8SK-175)	COMMENTS	
1	GW055-204	10-08-2020	1240	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
TB204-25																	
SAMPLER(S): G. Begay				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5600													
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME			
Printed Name and Signature: Gabeon Begay				10-08-2020		1630		Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature: Chris Stef				10-9-20		1049			

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-057-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5223/20B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW057-204	10-08-2020	1300	10	3	—		2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begay</i>										COURIER AND SHIPPING NUMBER: FedEx <i>8155 2826 5600</i>						
RELINQUISHED BY: <i>G. Begay</i>										RECEIVED BY: <i>Chris Stief</i>						
DATE: 10-08-2020 TIME: 1630										DATE: 10-9-20 TIME: 10:49						
Printed Name and Signature: <i>G. Begay</i>										Printed Name and Signature: <i>Chris Stief</i>						
Printed Name and Signature: <i>G. Begay</i>										Printed Name and Signature: <i>Chris Stief</i>						
Printed Name and Signature: <i>G. Begay</i>										Printed Name and Signature: <i>Chris Stief</i>						

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-058-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M/2320B)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW058-204	10-08-2020	1200	10	3	—	2	1	1*	1	1	1	—		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): G. Begaye										COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5600					
RELINQUISHED BY: _____ DATE: _____ TIME: _____										RECEIVED BY: _____ DATE: _____ TIME: _____					
Printed Name and Signature: Gabriel Begaye 10-08-2020 1630										Printed Name and Signature: _____					
Printed Name and Signature: _____										Printed Name and Signature: _____					
Printed Name and Signature: _____										Printed Name and Signature: Chris Stief 10-9-20 10:49					

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-25	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4					
LAB CONTACT: Kay Hower		KayHower@eurofinsUS.com				Eurofins 1 (717) 556-7258									
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total As, Pb, Cu, K, Na, Mg (8200A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (SM2320B)	COMMENTS		
1	TB204-25	10/8/2020	1200	4	2		2								
2															
3															
4															
5															
Associated with: GW055-204 GW057-204 GW058-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5600											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/8/2020	1630	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Chris Stef				10-9-20	ELF	10.49			

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1826		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-042-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (542320B)	Carbon Dioxide (RSC-175)	Comments	
1	GW042-204	10-08-2020	1030	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S):  RELINQUISHED BY: _____ Printed Name and Signature:  Printed Name and Signature: _____ Printed Name and Signature: _____ COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5596 RECEIVED BY: _____ Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature:  TB204- 26 DATE: 10-08-2020 TIME: 1630 DATE: 10/9/20 TIME: 10528															

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-041-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTXN (8260C)	EDR (8011)	Total (As, Pb, Cd, Cu, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (R5K-175)	Comments	
1	GW041-204	10-08-2020	1015	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): G. Beyne RELINQUISHED BY: <i>G. Beyne</i> <i>[Signature]</i> Printed Name and Signature: <i>G. Beyne</i> Printed Name and Signature: <i>[Signature]</i> Printed Name and Signature: <i>[Signature]</i> COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5596 RECEIVED BY: <i>[Signature]</i> Printed Name and Signature: <i>[Signature]</i> Printed Name and Signature: <i>[Signature]</i> Printed Name and Signature: <i>Chad Wettig</i> TB204- 26 DATE: 10-08-2020 TIME: 1630 DATE: 10/9/20 TIME: 10:38															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 721-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-034-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST 106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	(8260C) BTEXN	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW034-204	10-08-2020	0925	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
G. Begay

COURIER AND SHIPPING NUMBER:
FedEx 8155 2826 5596

TB204- 26

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
<i>Gabriel Begay</i>	10-08-2020	1630			
			<i>Chad Wetzig</i>	10/9/20	10:28

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204- 26

YEAR: 2020
QUARTER: 4

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cu, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204- 26	10/8/2020	1200	4	2			2								
2																
3																
4																
5																

Associated with:

GW033-204 GW042-204
GW039-204
GW041-204

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5596

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
J Livingston	10/8/2020	1630			
			Chad Wettig	10/9/20	10:38

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 721-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-106-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (B260C)	BTEX (B260C)	EDB (B011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Total Carbonate and Bicarbonate (5A2320B)	Alkalinity (5A2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW106-204	10-08-2020	1120	10	3	—	2	1	1*	1	1	1				
2	GW106-604	10-08-2020	1120	10	3	—	2	1	1*	1	1	1				
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begue</i> COURIER AND SHIPPING NUMBER: <i>FedEx 81552826 5585</i> TB204- <i>27</i>																
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
<i>Gabriel Begue</i>				<i>10-08-2020</i>		<i>1830</i>										
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
								<i>Nicole Reiff</i>				<i>10/9/20</i>		<i>1037</i>		

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1626		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-093-204										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020												
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS										
				Total Number of Bottles	VOCs	BTEX	(B260C)	BTEXN	(B260C)	ED8	(B011)	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn		(6010C)	Chloride, bromide, sulfate	(300.0)	Nitrate-Nitrite	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B)	Carbon Dioxide	(RSK-175)	Methane
1	GW093-204	10-08-2020	1340	10	3	—	2	1	1*	1	1	1												
2																								
3																								
4																								
5																								
6																								
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																								
SAMPLER(S):				COURIER AND SHIPPING NUMBER: TB204- 27																				
RELINQUISHED BY: <i>Gabe Breyer</i>				FedEx 8155 2820 5585																				
Printed Name and Signature:				DATE		TIME		RECEIVED BY:				DATE		TIME										
<i>Gabe Breyer</i>				10-08-2020		1630																		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME										
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME										
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME										
								<i>Nicole Reiff</i>				10/9/20		1037										

 225 Schilling Circle Suite 400 Hunt Valley, MD Tel No: (410) 584-7000 Fax No: (410) 771-1626		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-27									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4									
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	BTEXN	EDB	Total As, Pb, Cu, K, Na, Mg (6020A6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS	
1	TB204-27	10/8/2020	1200	4	2			2							
2															
3															
4															
5	AL														
Associated with: GW093-204 GW106-204 GW106-604															
SAMPLER(S): J. Livingston				COURIER AND SHIPPING NUMBER: FedEx 81552826 5585											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J. Livingston				10/8/2020		1630		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Nicole Reiff				10/9/20		1037	

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-16798-1

Login Number: 16798**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Metzger, Katherine A**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-16827-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/4/2020 9:36:54 AM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Darlene Bandy
Project Manager I
11/4/2020 9:36:54 AM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Job ID: 410-16827-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-16827-1

Receipt

The samples were received on 10/10/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4° C, 0.8° C, 0.8° C and 1.9° C.

Receipt Exceptions

One or more containers for the following sample was received broken or leaking: 1 HCl vial broke while labeling.GW091-604 (410-16827-2).

GC/MS VOA

Method 8260C DOD: The response for Chloroethane, Chloromethane, Hexachlorobutadiene and Vinyl chloride in the continuing calibration verification (CCV) marginally exceeds, low-biased, the DoD acceptance criteria on batch 410-55770. Due to the marginal nature of the outlier(s), the data is reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW091-204 (410-16827-1), GW091-604 (410-16827-2), GW092-204 (410-16827-3), TB204-29 (410-16827-4), GW022-204 (410-16827-5), GW053-204 (410-16827-6), GW054-204 (410-16827-7), TB204-30 (410-16827-8), GW037-204 (410-16827-9), GW037-604 (410-16827-10), GW077-204 (410-16827-11), TB204-31 (410-16827-13), GW033-204 (410-16827-14), GW035-204 (410-16827-15), GW212-204 (410-16827-16) and TB204-28 (410-16827-17). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: Surrogate 1,2-Dichloroethane-d4 recovery for the following samples in analytical batch 410-55770 was outside the upper control limit: GW091-604 (410-16827-2), GW053-204 (410-16827-6), GW212-204 (410-16827-16) and TB204-28 (410-16827-17). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-56668 recovered outside acceptance criteria, low biased, for Acetone and Tetrachloroethene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C DOD: The continuing calibration verification (CCV) analyzed on analytical batch 410-56668 is compliant under 8260C/D method criteria for 2-Butanone. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260C DOD: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): GW022-204 (410-16827-5).

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-57112 recovered outside acceptance criteria, low biased, for Bromoform. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The continuing calibration verification (CCV) associated with batch 410-55079 recovered above the upper control limit for Bromide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Job ID: 410-16827-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW091-204

Lab Sample ID: 410-16827-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	67	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	77	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	66		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	9.0		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	92		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	92		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.8	J1	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW091-604

Lab Sample ID: 410-16827-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	61	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	78	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	67		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	9.1		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.5		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	27		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	89		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	89		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.8		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW092-204

Lab Sample ID: 410-16827-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	65	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	90	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	68		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	9.3		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.4		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	29		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00079	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	95		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	95		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.6		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-29

Lab Sample ID: 410-16827-4

No Detections.

Client Sample ID: GW022-204

Lab Sample ID: 410-16827-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.5		1.0	0.50	0.30	ug/L	1		8260C DOD	Total/NA
Acetone	7.2	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Benzene	0.29	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Isopropylbenzene	1.2	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Methyl tertiary butyl ether	0.27	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	0.54	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.027	J M	0.029	0.019	0.0095	ug/L	1		8011	Total/NA
Chloride	41	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	41	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	48		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.6		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.11		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.00070	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW053-204

Lab Sample ID: 410-16827-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	100	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	210	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	110	J1	0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	16	J1	0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.8		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	34	J1	1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	84		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	84		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	3.4		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW054-204

Lab Sample ID: 410-16827-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	60	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	59	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	58		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW054-204 (Continued)

Lab Sample ID: 410-16827-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	8.0		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00073	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	89		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	89		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.7		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: TB204-30

Lab Sample ID: 410-16827-8

No Detections.

Client Sample ID: GW037-204

Lab Sample ID: 410-16827-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.059		0.029	0.019	0.0096	ug/L	1			8011	Total/NA
Chloride	14	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	33	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	36		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.0		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	1.7		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00087	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.27		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW037-604

Lab Sample ID: 410-16827-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.090		0.029	0.020	0.0098	ug/L	1			8011	Total/NA
Chloride	15	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	35	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	38		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.2		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	1.8		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW037-604 (Continued)

Lab Sample ID: 410-16827-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.26		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW077-204

Lab Sample ID: 410-16827-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.7		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	7.1	J1 D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	25	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	33		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	4.9		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	1.8		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	20		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00013	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.094	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW229-204

Lab Sample ID: 410-16827-12

No Detections.

Client Sample ID: TB204-31

Lab Sample ID: 410-16827-13

No Detections.

Client Sample ID: GW033-204

Lab Sample ID: 410-16827-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	70	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	96	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	79		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	12		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	27		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00073	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	75		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	75	J1	8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.7		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW035-204

Lab Sample ID: 410-16827-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethane	0.80	J	1.0	0.50	0.30	ug/L	1			8260C DOD	Total/NA
Acetone	4.7	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.060		0.029	0.019	0.0095	ug/L	1			8011	Total/NA
Chloride	18	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	39	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	45		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	6.2		0.10	0.075	0.040	mg/L	1			6010C	Recoverable Total
Potassium	2.0		0.50	0.38	0.20	mg/L	1			6010C	Recoverable Total
Sodium	25		1.0	0.50	0.24	mg/L	1			6010C	Recoverable Total
Arsenic	0.00097	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	140		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	140		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.049	J	0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW212-204

Lab Sample ID: 410-16827-16

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	23	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	23	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	35		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	4.9		0.10	0.075	0.040	mg/L	1			6010C	Recoverable Total
Potassium	1.7		0.50	0.38	0.20	mg/L	1			6010C	Recoverable Total
Sodium	24		1.0	0.50	0.24	mg/L	1			6010C	Recoverable Total
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.093	J	0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: TB204-28

Lab Sample ID: 410-16827-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW091-204

Lab Sample ID: 410-16827-1

Date Collected: 10/09/20 10:45

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:04	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 19:04	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:04	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:04	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:04	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:04	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:04	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 19:04	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 19:04	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 19:04	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/21/20 19:04	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 19:04	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 19:04	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 19:04	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:04	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 19:04	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 19:04	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW091-204

Lab Sample ID: 410-16827-1

Date Collected: 10/09/20 10:45

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:04	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:04	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:04	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 19:04	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:04	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:04	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 19:04	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:04	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/21/20 19:04	1
4-Bromofluorobenzene (Surr)	98		85 - 114		10/21/20 19:04	1
Dibromofluoromethane (Surr)	98		80 - 119		10/21/20 19:04	1
Toluene-d8 (Surr)	99		89 - 112		10/21/20 19:04	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 10:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136	10/17/20 00:41	10/20/20 10:36	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/17/20 00:41	10/20/20 10:36	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 21:07	5
Chloride	67	D	20	15	10	mg/L		10/16/20 23:26	50
Sulfate	77	D	50	45	15	mg/L		10/16/20 23:26	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	66		0.20	0.15	0.096	mg/L		10/18/20 18:38	1
Magnesium	9.0		0.10	0.075	0.040	mg/L		10/18/20 18:38	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/18/20 18:38	1
Sodium	26		1.0	0.50	0.24	mg/L		10/18/20 18:38	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 20:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW091-204

Lab Sample ID: 410-16827-1

Date Collected: 10/09/20 10:45

Matrix: Water

Date Received: 10/10/20 09:50

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 20:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 18:44	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 18:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	92		8.0	6.0	8.0	mg/L		10/13/20 23:58	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 23:58	1
Total Alkalinity as CaCO ₃ to pH 4.5	92		8.0	6.0	8.0	mg/L		10/13/20 23:58	1
Nitrate Nitrite as N	1.8	J1	0.10	0.090	0.040	mg/L		11/01/20 13:37	1

Client Sample ID: GW091-604

Lab Sample ID: 410-16827-2

Date Collected: 10/09/20 10:45

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 19:54	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 19:54	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 19:54	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 19:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 19:54	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 19:54	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 19:54	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 19:54	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 19:54	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 19:54	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 19:54	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 19:54	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 19:54	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 19:54	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW091-604

Lab Sample ID: 410-16827-2

Date Collected: 10/09/20 10:45

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 19:54	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 19:54	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 19:54	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 19:54	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 19:54	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 19:54	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 19:54	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 19:54	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 19:54	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 19:54	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 19:54	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 19:54	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	Q	81 - 118		10/19/20 19:54	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/19/20 19:54	1
Dibromofluoromethane (Surr)	102		80 - 119		10/19/20 19:54	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 19:54	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/20/20 11:27	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW091-604

Lab Sample ID: 410-16827-2

Date Collected: 10/09/20 10:45

Matrix: Water

Date Received: 10/10/20 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	93		46 - 136	10/17/20 00:41	10/20/20 11:27	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/17/20 00:41	10/20/20 11:27	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/17/20 00:03	50
Chloride	61	D	20	15	10	mg/L		10/17/20 00:03	50
Sulfate	78	D	50	45	15	mg/L		10/17/20 00:03	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	67		0.20	0.15	0.096	mg/L		10/14/20 17:40	1
Magnesium	9.1		0.10	0.075	0.040	mg/L		10/14/20 17:40	1
Potassium	3.5		0.50	0.38	0.20	mg/L		10/15/20 14:11	1
Sodium	27		1.0	0.50	0.24	mg/L		10/14/20 17:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:32	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 10:32	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 18:46	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 18:46	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	89		8.0	6.0	8.0	mg/L		10/13/20 23:50	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 23:50	1
Total Alkalinity as CaCO ₃ to pH 4.5	89		8.0	6.0	8.0	mg/L		10/13/20 23:50	1
Nitrate Nitrite as N	1.8		0.10	0.090	0.040	mg/L		11/01/20 13:43	1

Client Sample ID: GW092-204

Lab Sample ID: 410-16827-3

Date Collected: 10/08/20 14:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:16	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 20:16	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 20:16	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 20:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 20:16	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW092-204

Lab Sample ID: 410-16827-3

Date Collected: 10/08/20 14:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:16	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 20:16	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:16	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 20:16	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 20:16	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 20:16	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 20:16	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 20:16	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 20:16	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 20:16	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:16	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 20:16	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 20:16	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 20:16	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:16	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 20:16	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 20:16	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:16	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 20:16	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW092-204

Lab Sample ID: 410-16827-3

Date Collected: 10/08/20 14:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 20:16	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 20:16	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		81 - 118		10/19/20 20:16	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 20:16	1
Dibromofluoromethane (Surr)	102		80 - 119		10/19/20 20:16	1
Toluene-d8 (Surr)	103		89 - 112		10/19/20 20:16	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/17/20 00:41	10/20/20 11:44	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/17/20 00:41	10/20/20 11:44	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/17/20 01:15	50
Chloride	65	D	20	15	10	mg/L		10/17/20 01:15	50
Sulfate	90	D	50	45	15	mg/L		10/17/20 01:15	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	68		0.20	0.15	0.096	mg/L		10/14/20 17:47	1
Magnesium	9.3		0.10	0.075	0.040	mg/L		10/14/20 17:47	1
Potassium	3.4		0.50	0.38	0.20	mg/L		10/15/20 14:15	1
Sodium	29		1.0	0.50	0.24	mg/L		10/14/20 17:47	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:35	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 10:35	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00079	J	0.0020	0.0016	0.00068	mg/L		10/19/20 18:51	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 18:51	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	95		8.0	6.0	8.0	mg/L		10/13/20 23:43	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 23:43	1
Total Alkalinity as CaCO3 to pH 4.5	95		8.0	6.0	8.0	mg/L		10/13/20 23:43	1
Nitrate Nitrite as N	1.6		0.10	0.090	0.040	mg/L		11/01/20 13:44	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-29

Lab Sample ID: 410-16827-4

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:14	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 16:14	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:14	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:14	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:14	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:14	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:14	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 16:14	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 16:14	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 16:14	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 16:14	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 16:14	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 16:14	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 16:14	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:14	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 16:14	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 16:14	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-29

Lab Sample ID: 410-16827-4

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:14	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:14	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:14	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 16:14	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:14	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:14	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 16:14	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:14	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		81 - 118		10/19/20 16:14	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/19/20 16:14	1
Dibromofluoromethane (Surr)	101		80 - 119		10/19/20 16:14	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 16:14	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136	10/17/20 00:41	10/20/20 12:01	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 00:41	10/20/20 12:01	1

Client Sample ID: GW022-204

Lab Sample ID: 410-16827-5

Date Collected: 10/09/20 12:10

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:26	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 19:26	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW022-204

Lab Sample ID: 410-16827-5

Date Collected: 10/09/20 12:10

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:26	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,2-Dichloroethane	1.5		1.0	0.50	0.30	ug/L		10/21/20 19:26	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:26	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:26	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 19:26	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		10/21/20 19:26	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/21/20 19:26	1
Acetone	7.2	J Q	20	2.0	0.70	ug/L		10/21/20 19:26	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 19:26	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 19:26	1
Benzene	0.29	J	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
Bromodichloromethane	0.50	U M	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 19:26	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:26	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 19:26	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 19:26	1
Isopropylbenzene	1.2	J	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:26	1
Methyl tertiary butyl ether	0.27	J	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:26	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:26	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 19:26	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
sec-Butylbenzene	0.54	J	5.0	0.50	0.20	ug/L		10/21/20 19:26	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW022-204

Lab Sample ID: 410-16827-5

Date Collected: 10/09/20 12:10

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:26	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 19:26	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:26	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/21/20 19:26	1
4-Bromofluorobenzene (Surr)	102		85 - 114		10/21/20 19:26	1
Dibromofluoromethane (Surr)	99		80 - 119		10/21/20 19:26	1
Toluene-d8 (Surr)	102		89 - 112		10/21/20 19:26	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.027	J M	0.029	0.019	0.0095	ug/L		10/20/20 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	110		46 - 136	10/17/20 00:41	10/20/20 12:18	1
1,1,2,2-Tetrachloroethane (2C)	91	M	46 - 136	10/17/20 00:41	10/20/20 12:18	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/17/20 01:51	50
Chloride	41	D	20	15	10	mg/L		10/17/20 01:51	50
Sulfate	41	D	5.0	4.5	1.5	mg/L		10/17/20 01:33	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	48		0.20	0.15	0.096	mg/L		10/18/20 18:22	1
Magnesium	6.6		0.10	0.075	0.040	mg/L		10/18/20 18:22	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/18/20 18:22	1
Sodium	24		1.0	0.50	0.24	mg/L		10/18/20 18:22	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:44	1
Manganese	0.11		0.010	0.0052	0.0031	mg/L		10/15/20 10:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00070	J	0.0020	0.0016	0.00068	mg/L		10/19/20 18:53	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 18:53	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L		10/13/20 23:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW022-204

Lab Sample ID: 410-16827-5

Date Collected: 10/09/20 12:10

Matrix: Water

Date Received: 10/10/20 09:50

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 23:35	1
Total Alkalinity as CaCO₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/13/20 23:35	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/01/20 13:45	1

Client Sample ID: GW053-204

Lab Sample ID: 410-16827-6

Date Collected: 10/09/20 13:40

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:38	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 20:38	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 20:38	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 20:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 20:38	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:38	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 20:38	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:38	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 20:38	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 20:38	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 20:38	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 20:38	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 20:38	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 20:38	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 20:38	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 20:38	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 20:38	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 20:38	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 20:38	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW053-204

Lab Sample ID: 410-16827-6

Date Collected: 10/09/20 13:40

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/19/20 20:38	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L	—	10/19/20 20:38	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 20:38	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 20:38	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 20:38	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/19/20 20:38	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 20:38	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/19/20 20:38	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/19/20 20:38	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/19/20 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	Q	81 - 118	—	10/19/20 20:38	1
4-Bromofluorobenzene (Surr)	96	—	85 - 114	—	10/19/20 20:38	1
Dibromofluoromethane (Surr)	103	—	80 - 119	—	10/19/20 20:38	1
Toluene-d8 (Surr)	103	—	89 - 112	—	10/19/20 20:38	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L	—	10/20/20 09:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104	—	46 - 136	10/16/20 23:44	10/20/20 09:02	1
1,1,2,2-Tetrachloroethane (2C)	89	—	46 - 136	10/16/20 23:44	10/20/20 09:02	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L	—	10/17/20 02:28	50
Chloride	100	D	20	15	10	mg/L	—	10/17/20 02:28	50
Sulfate	210	D	50	45	15	mg/L	—	10/17/20 02:28	50

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW053-204

Lab Sample ID: 410-16827-6

Date Collected: 10/09/20 13:40

Matrix: Water

Date Received: 10/10/20 09:50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	110	J1	0.20	0.15	0.096	mg/L		10/14/20 21:49	1
Magnesium	16	J1	0.10	0.075	0.040	mg/L		10/14/20 21:49	1
Potassium	3.8		0.50	0.38	0.20	mg/L		10/14/20 21:49	1
Sodium	34	J1	1.0	0.50	0.24	mg/L		10/14/20 21:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:47	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 10:47	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 18:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 18:55	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	84		8.0	6.0	8.0	mg/L		10/13/20 23:28	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 23:28	1
Total Alkalinity as CaCO ₃ to pH 4.5	84		8.0	6.0	8.0	mg/L		10/13/20 23:28	1
Nitrate Nitrite as N	3.4		0.10	0.090	0.040	mg/L		11/01/20 13:46	1

Client Sample ID: GW054-204

Lab Sample ID: 410-16827-7

Date Collected: 10/09/20 14:15

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:47	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 19:47	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:47	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:47	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:47	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:47	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:47	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 19:47	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW054-204

Lab Sample ID: 410-16827-7

Date Collected: 10/09/20 14:15

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 19:47	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 19:47	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/21/20 19:47	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 19:47	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 19:47	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 19:47	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:47	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 19:47	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 19:47	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:47	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 19:47	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 19:47	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 19:47	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 19:47	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 19:47	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 19:47	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 19:47	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118					10/21/20 19:47	1
4-Bromofluorobenzene (Surr)	99		85 - 114					10/21/20 19:47	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW054-204

Lab Sample ID: 410-16827-7

Date Collected: 10/09/20 14:15

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 119		10/21/20 19:47	1
Toluene-d8 (Surr)	99		89 - 112		10/21/20 19:47	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	108		46 - 136	10/16/20 23:44	10/20/20 09:19	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/16/20 23:44	10/20/20 09:19	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	20	U Q	25	20	13	mg/L		10/17/20 03:04	50
Chloride	60	D	20	15	10	mg/L		10/17/20 03:04	50
Sulfate	59	D	5.0	4.5	1.5	mg/L		10/17/20 02:46	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	58		0.20	0.15	0.096	mg/L		10/18/20 18:25	1
Magnesium	8.0		0.10	0.075	0.040	mg/L		10/18/20 18:25	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/18/20 18:25	1
Sodium	25		1.0	0.50	0.24	mg/L		10/18/20 18:25	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:53	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 10:53	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00073	J	0.0020	0.0016	0.00068	mg/L		10/19/20 18:57	1
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L		10/19/20 18:57	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	89		8.0	6.0	8.0	mg/L		10/13/20 23:13	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 23:13	1
Total Alkalinity as CaCO3 to pH 4.5	89		8.0	6.0	8.0	mg/L		10/13/20 23:13	1
Nitrate Nitrite as N	1.7		0.10	0.090	0.040	mg/L		11/01/20 13:47	1

Client Sample ID: TB204-30

Lab Sample ID: 410-16827-8

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:36	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-30

Lab Sample ID: 410-16827-8

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 16:36	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:36	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:36	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:36	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:36	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:36	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 16:36	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 16:36	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 16:36	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 16:36	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 16:36	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 16:36	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 16:36	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:36	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 16:36	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 16:36	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:36	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:36	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-30

Lab Sample ID: 410-16827-8

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 16:36	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:36	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:36	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 16:36	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:36	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		81 - 118		10/19/20 16:36	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 16:36	1
Dibromofluoromethane (Surr)	100		80 - 119		10/19/20 16:36	1
Toluene-d8 (Surr)	103		89 - 112		10/19/20 16:36	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 09:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136	10/16/20 23:44	10/20/20 09:36	1
1,1,2,2-Tetrachloroethane (2C)	86		46 - 136	10/16/20 23:44	10/20/20 09:36	1

Client Sample ID: GW037-204

Lab Sample ID: 410-16827-9

Date Collected: 10/09/20 08:50

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:10	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 20:10	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:10	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:10	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW037-204

Lab Sample ID: 410-16827-9

Date Collected: 10/09/20 08:50

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:10	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:10	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:10	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 20:10	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 20:10	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 20:10	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/21/20 20:10	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 20:10	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 20:10	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 20:10	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:10	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 20:10	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 20:10	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:10	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:10	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:10	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 20:10	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:10	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:10	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW037-204

Lab Sample ID: 410-16827-9

Date Collected: 10/09/20 08:50

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 20:10	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:10	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/21/20 20:10	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/21/20 20:10	1
Dibromofluoromethane (Surr)	98		80 - 119		10/21/20 20:10	1
Toluene-d8 (Surr)	99		89 - 112		10/21/20 20:10	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.059		0.029	0.019	0.0096	ug/L		10/20/20 10:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	110		46 - 136	10/16/20 23:44	10/20/20 10:26	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/16/20 23:44	10/20/20 10:26	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/17/20 03:22	5
Chloride	14	D	2.0	1.5	1.0	mg/L		10/17/20 03:22	5
Sulfate	33	D	5.0	4.5	1.5	mg/L		10/17/20 03:22	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	36		0.20	0.15	0.096	mg/L		10/18/20 16:42	1
Magnesium	5.0		0.10	0.075	0.040	mg/L		10/18/20 16:42	1
Potassium	1.7		0.50	0.38	0.20	mg/L		10/18/20 16:42	1
Sodium	22		1.0	0.50	0.24	mg/L		10/18/20 16:42	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:56	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 10:56	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00087	J	0.0020	0.0016	0.00068	mg/L		10/19/20 18:59	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 18:59	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/13/20 22:55	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 22:55	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/13/20 22:55	1
Nitrate Nitrite as N	0.27		0.10	0.090	0.040	mg/L		11/01/20 13:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW037-604

Lab Sample ID: 410-16827-10

Date Collected: 10/09/20 08:50

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:32	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 20:32	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:32	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:32	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:32	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 20:32	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 20:32	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 20:32	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/21/20 20:32	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 20:32	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 20:32	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 20:32	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:32	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 20:32	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 20:32	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW037-604

Lab Sample ID: 410-16827-10

Date Collected: 10/09/20 08:50

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:32	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:32	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:32	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 20:32	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:32	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:32	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 20:32	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:32	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/21/20 20:32	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/21/20 20:32	1
Dibromofluoromethane (Surr)	98		80 - 119		10/21/20 20:32	1
Toluene-d8 (Surr)	99		89 - 112		10/21/20 20:32	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.090		0.029	0.020	0.0098	ug/L		10/20/20 10:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	106		46 - 136	10/16/20 23:44	10/20/20 10:43	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/16/20 23:44	10/20/20 10:43	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/17/20 03:40	5
Chloride	15	D	2.0	1.5	1.0	mg/L		10/17/20 03:40	5
Sulfate	35	D	5.0	4.5	1.5	mg/L		10/17/20 03:40	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	38		0.20	0.15	0.096	mg/L		10/18/20 18:00	1
Magnesium	5.2		0.10	0.075	0.040	mg/L		10/18/20 18:00	1
Potassium	1.8		0.50	0.38	0.20	mg/L		10/18/20 18:00	1
Sodium	22		1.0	0.50	0.24	mg/L		10/18/20 18:00	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:59	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW037-604

Lab Sample ID: 410-16827-10

Date Collected: 10/09/20 08:50

Matrix: Water

Date Received: 10/10/20 09:50

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 10:59	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L		10/19/20 19:01	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 19:01	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/13/20 23:20	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 23:20	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/13/20 23:20	1
Nitrate Nitrite as N	0.26		0.10	0.090	0.040	mg/L		11/01/20 13:50	1

Client Sample ID: GW077-204

Lab Sample ID: 410-16827-11

Date Collected: 10/09/20 12:38

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:54	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 20:54	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:54	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:54	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:54	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:54	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:54	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 20:54	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 20:54	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 20:54	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/21/20 20:54	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 20:54	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 20:54	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW077-204

Lab Sample ID: 410-16827-11

Date Collected: 10/09/20 12:38

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 20:54	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:54	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 20:54	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 20:54	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:54	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 20:54	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 20:54	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 20:54	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 20:54	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 20:54	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Toluene	1.7		1.0	0.50	0.20	ug/L		10/21/20 20:54	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 20:54	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 20:54	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/21/20 20:54	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/21/20 20:54	1
Dibromofluoromethane (Surr)	99		80 - 119		10/21/20 20:54	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 20:54	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/20/20 11:00	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW077-204

Lab Sample ID: 410-16827-11

Date Collected: 10/09/20 12:38

Matrix: Water

Date Received: 10/10/20 09:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	113		46 - 136	10/16/20 23:44	10/20/20 11:00	1
1,1,2,2-Tetrachloroethane (2C)	102		46 - 136	10/16/20 23:44	10/20/20 11:00	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U J1 Q	2.5	2.0	1.3	mg/L		10/17/20 04:34	5
Chloride	7.1	J1 D	2.0	1.5	1.0	mg/L		10/17/20 04:34	5
Sulfate	25	D	5.0	4.5	1.5	mg/L		10/17/20 04:34	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	33		0.20	0.15	0.096	mg/L		10/18/20 18:03	1
Magnesium	4.9		0.10	0.075	0.040	mg/L		10/18/20 18:03	1
Potassium	1.8		0.50	0.38	0.20	mg/L		10/18/20 18:03	1
Sodium	20		1.0	0.50	0.24	mg/L		10/18/20 18:03	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 11:02	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 11:02	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L		10/19/20 19:03	1
Lead	0.00013	J	0.00050	0.00025	0.000071	mg/L		10/19/20 19:03	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/13/20 22:47	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 22:47	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/13/20 22:47	1
Nitrate Nitrite as N	0.094	J	0.10	0.090	0.040	mg/L		11/01/20 13:51	1

Client Sample ID: GW229-204

Lab Sample ID: 410-16827-12

Date Collected: 10/09/20 11:40

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	111		46 - 136	10/16/20 23:44	10/20/20 11:17	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/16/20 23:44	10/20/20 11:17	1

Client Sample ID: TB204-31

Lab Sample ID: 410-16827-13

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-31

Lab Sample ID: 410-16827-13

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:58	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 16:58	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:58	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:58	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:58	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:58	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:58	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 16:58	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 16:58	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 16:58	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 16:58	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 16:58	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 16:58	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 16:58	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:58	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 16:58	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 16:58	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-31

Lab Sample ID: 410-16827-13

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 16:58	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 16:58	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 16:58	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 16:58	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 16:58	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 16:58	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 16:58	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		81 - 118		10/19/20 16:58	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 16:58	1
Dibromofluoromethane (Surr)	101		80 - 119		10/19/20 16:58	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 16:58	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/20/20 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	109		46 - 136	10/16/20 23:44	10/20/20 11:33	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/16/20 23:44	10/20/20 11:33	1

Client Sample ID: GW033-204

Lab Sample ID: 410-16827-14

Date Collected: 10/08/20 09:05

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 15:02	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 15:02	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 15:02	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 15:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW033-204

Lab Sample ID: 410-16827-14

Date Collected: 10/08/20 09:05

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 15:02	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 15:02	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 15:02	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 15:02	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 15:02	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 15:02	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 15:02	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/21/20 15:02	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 15:02	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 15:02	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 15:02	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 15:02	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 15:02	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 15:02	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 15:02	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 15:02	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 15:02	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 15:02	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 15:02	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 15:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW033-204

Lab Sample ID: 410-16827-14

Date Collected: 10/08/20 09:05

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 15:02	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 15:02	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/21/20 15:02	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/21/20 15:02	1
Dibromofluoromethane (Surr)	97		80 - 119		10/21/20 15:02	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 15:02	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	108		46 - 136	10/17/20 00:41	10/20/20 12:35	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/17/20 00:41	10/20/20 12:35	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/17/20 05:29	5
Chloride	70	D	20	15	10	mg/L		10/17/20 05:47	50
Sulfate	96	D	50	45	15	mg/L		10/17/20 05:47	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	79		0.20	0.15	0.096	mg/L		10/18/20 18:06	1
Magnesium	12		0.10	0.075	0.040	mg/L		10/18/20 18:06	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/18/20 18:06	1
Sodium	27		1.0	0.50	0.24	mg/L		10/18/20 18:06	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 11:05	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 11:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00073	J	0.0020	0.0016	0.00068	mg/L		10/15/20 20:05	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 20:05	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	75		8.0	6.0	8.0	mg/L		10/13/20 22:03	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 22:03	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW033-204

Lab Sample ID: 410-16827-14

Date Collected: 10/08/20 09:05

Matrix: Water

Date Received: 10/10/20 09:50

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Total Alkalinity as CaCO ₃ to pH 4.5	75	J1	8.0	6.0	8.0	mg/L		10/13/20 22:03	1
Nitrate Nitrite as N	1.7		0.10	0.090	0.040	mg/L		11/01/20 13:52	1

Client Sample ID: GW035-204

Lab Sample ID: 410-16827-15

Date Collected: 10/09/20 09:55

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 08:39	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/22/20 08:39	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 08:39	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 08:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 08:39	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,2-Dichloroethane	0.80	J	1.0	0.50	0.30	ug/L		10/22/20 08:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 08:39	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 08:39	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 08:39	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		10/22/20 08:39	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/22/20 08:39	1
Acetone	4.7	J	20	2.0	0.70	ug/L		10/22/20 08:39	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/22/20 08:39	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/22/20 08:39	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
Bromodichloromethane	0.50	U M	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/22/20 08:39	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 08:39	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 08:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 08:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW035-204

Lab Sample ID: 410-16827-15

Date Collected: 10/09/20 09:55

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/22/20 08:39	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L	—	10/22/20 08:39	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/22/20 08:39	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/22/20 08:39	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/22/20 08:39	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/22/20 08:39	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/22/20 08:39	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/22/20 08:39	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L	—	10/22/20 08:39	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/22/20 08:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/22/20 08:39	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/22/20 08:39	1
Dibromofluoromethane (Surr)	99		80 - 119		10/22/20 08:39	1
Toluene-d8 (Surr)	99		89 - 112		10/22/20 08:39	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.060		0.029	0.019	0.0095	ug/L	—	10/20/20 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	125		46 - 136	10/16/20 23:44	10/20/20 11:50	1
1,1,2,2-Tetrachloroethane (2C)	90		46 - 136	10/16/20 23:44	10/20/20 11:50	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L	—	10/17/20 06:05	5
Chloride	18	D	2.0	1.5	1.0	mg/L	—	10/17/20 06:05	5
Sulfate	39	D	5.0	4.5	1.5	mg/L	—	10/17/20 06:05	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW035-204

Lab Sample ID: 410-16827-15

Date Collected: 10/09/20 09:55

Matrix: Water

Date Received: 10/10/20 09:50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	45		0.20	0.15	0.096	mg/L		10/18/20 18:09	1
Magnesium	6.2		0.10	0.075	0.040	mg/L		10/18/20 18:09	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/18/20 18:09	1
Sodium	25		1.0	0.50	0.24	mg/L		10/18/20 18:09	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:50	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 10:50	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00097	J	0.0020	0.0016	0.00068	mg/L		10/15/20 20:07	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 20:07	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	140		8.0	6.0	8.0	mg/L		10/13/20 22:24	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 22:24	1
Total Alkalinity as CaCO ₃ to pH 4.5	140		8.0	6.0	8.0	mg/L		10/13/20 22:24	1
Nitrate Nitrite as N	0.049	J	0.10	0.090	0.040	mg/L		11/01/20 14:12	1

Client Sample ID: GW212-204

Lab Sample ID: 410-16827-16

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 23:13	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 23:13	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 23:13	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 23:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 23:13	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 23:13	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 23:13	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 23:13	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 23:13	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW212-204

Lab Sample ID: 410-16827-16

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 23:13	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 23:13	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 23:13	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 23:13	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 23:13	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 23:13	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 23:13	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 23:13	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 23:13	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 23:13	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 23:13	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 23:13	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 23:13	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 23:13	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 23:13	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 23:13	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 23:13	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121	Q	81 - 118					10/19/20 23:13	1
4-Bromofluorobenzene (Surr)	95		85 - 114					10/19/20 23:13	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW212-204

Lab Sample ID: 410-16827-16

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		80 - 119		10/19/20 23:13	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 23:13	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	88		46 - 136	10/16/20 23:44	10/20/20 12:07	1
1,1,2,2-Tetrachloroethane (2C)	83		46 - 136	10/16/20 23:44	10/20/20 12:07	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/17/20 06:41	5
Chloride	23	D	2.0	1.5	1.0	mg/L		10/17/20 06:41	5
Sulfate	23	D	5.0	4.5	1.5	mg/L		10/17/20 06:41	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	35		0.20	0.15	0.096	mg/L		10/18/20 18:18	1
Magnesium	4.9		0.10	0.075	0.040	mg/L		10/18/20 18:18	1
Potassium	1.7		0.50	0.38	0.20	mg/L		10/18/20 18:18	1
Sodium	24		1.0	0.50	0.24	mg/L		10/18/20 18:18	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 11:08	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 11:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L		10/15/20 20:12	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 20:12	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/13/20 22:39	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 22:39	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/13/20 22:39	1
Nitrate Nitrite as N	0.093	J	0.10	0.090	0.040	mg/L		11/01/20 14:15	1

Client Sample ID: TB204-28

Lab Sample ID: 410-16827-17

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:20	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-28

Lab Sample ID: 410-16827-17

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 17:20	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 17:20	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 17:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 17:20	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:20	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 17:20	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:20	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 17:20	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 17:20	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 17:20	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 17:20	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 17:20	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 17:20	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 17:20	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:20	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 17:20	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/19/20 17:20	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 17:20	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 17:20	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 17:20	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: TB204-28

Lab Sample ID: 410-16827-17

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 17:20	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 17:20	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 17:20	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 17:20	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/19/20 17:20	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119	Q	81 - 118		10/19/20 17:20	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/19/20 17:20	1
Dibromofluoromethane (Surr)	103		80 - 119		10/19/20 17:20	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 17:20	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/20/20 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/16/20 23:44	10/20/20 12:24	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/16/20 23:44	10/20/20 12:24	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-16827-1	GW091-204	100	98	98	99
410-16827-2	GW091-604	120 Q	97	102	102
410-16827-3	GW092-204	118	96	102	103
410-16827-4	TB204-29	116	95	101	102
410-16827-5	GW022-204	100	102	99	102
410-16827-6	GW053-204	120 Q	96	103	103
410-16827-7	GW054-204	101	99	98	99
410-16827-8	TB204-30	115	96	100	103
410-16827-9	GW037-204	100	99	98	99
410-16827-10	GW037-604	99	99	98	99
410-16827-11	GW077-204	98	99	99	100
410-16827-13	TB204-31	118	96	101	102
410-16827-14	GW033-204	99	100	97	100
410-16827-15	GW035-204	100	100	99	99
410-16827-16	GW212-204	121 Q	95	104	102
410-16827-17	TB204-28	119 Q	97	103	102
LCS 410-55770/6	Lab Control Sample	116	100	100	103
LCS 410-55770/9	Lab Control Sample	114	96	99	103
LCS 410-56668/6	Lab Control Sample	97	100	97	100
LCS 410-56668/9	Lab Control Sample	97	100	95	100
LCS 410-57112/5	Lab Control Sample	99	101	98	100
LCS 410-57112/7	Lab Control Sample	98	99	97	99
LCSD 410-55770/10	Lab Control Sample Dup	116	97	100	103
LCSD 410-55770/8	Lab Control Sample Dup	115	99	101	104
LCSD 410-56668/10	Lab Control Sample Dup	99	100	96	100
LCSD 410-56668/8	Lab Control Sample Dup	97	100	97	100
LCSD 410-57112/6	Lab Control Sample Dup	99	100	98	99
LCSD 410-57112/8	Lab Control Sample Dup	99	100	96	100
MB 410-55770/12	Method Blank	116	97	102 M	102
MB 410-56668/12	Method Blank	99	100	97	100
MB 410-57112/10	Method Blank	98	100	98	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-16827-1	GW091-204	92	93
410-16827-2	GW091-604	93	93
410-16827-3	GW092-204	97	99
410-16827-4	TB204-29	92	95
410-16827-5	GW022-204	110	91 M
410-16827-6	GW053-204	104	89

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-16827-7	GW054-204	108	93
410-16827-8	TB204-30	92	86
410-16827-9	GW037-204	110	99
410-16827-10	GW037-604	106	95
410-16827-11	GW077-204	113	102
410-16827-12	GW229-204	111	97
410-16827-13	TB204-31	109	98
410-16827-14	GW033-204	108	100
410-16827-15	GW035-204	125	90
410-16827-16	GW212-204	88	83
410-16827-17	TB204-28	104	95
LCS 410-55436/2-A	Lab Control Sample	95	88
LCS 410-55440/2-A	Lab Control Sample	88	92
LCSD 410-55436/3-A	Lab Control Sample Dup	94	89
LCSD 410-55440/3-A	Lab Control Sample Dup	93	96
MB 410-55436/1-A	Method Blank	100	90
MB 410-55440/1-A	Method Blank	94	95

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-55770/12

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 15:52	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 15:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 15:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 15:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 15:52	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 15:52	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 15:52	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 15:52	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 15:52	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 15:52	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 15:52	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 15:52	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 15:52	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/19/20 15:52	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-55770/12

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 15:52	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 15:52	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 15:52	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 15:52	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 15:52	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 15:52	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 15:52	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 15:52	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 15:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		81 - 118		10/19/20 15:52	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/19/20 15:52	1
Dibromofluoromethane (Surr)	102	M	80 - 119		10/19/20 15:52	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 15:52	1

Lab Sample ID: LCS 410-55770/6

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		104	78 - 124
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.9		ug/L		104	71 - 121
1,1,2-Trichloroethane	20.0	21.8		ug/L		109	80 - 119
1,1-Dichloroethane	20.0	21.4		ug/L		107	77 - 125
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131
1,1-Dichloropropene	20.0	21.4		ug/L		107	79 - 125
1,2,3-Trichlorobenzene	20.0	18.9		ug/L		95	69 - 129
1,2,3-Trichloropropane	20.0	20.8		ug/L		104	73 - 122
1,2,4-Trichlorobenzene	20.0	18.9		ug/L		95	69 - 130
1,2,4-Trimethylbenzene	20.0	21.3		ug/L		106	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.4		ug/L		102	62 - 128
1,2-Dibromoethane	20.0	20.2		ug/L		101	77 - 121
1,2-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	23.3		ug/L		116	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55770/6

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.6		ug/L		108	78 - 122
1,3,5-Trimethylbenzene	20.0	21.6		ug/L		108	75 - 124
1,3-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 119
1,3-Dichloropropane	20.0	20.9		ug/L		105	80 - 119
1,4-Dichlorobenzene	20.0	21.4		ug/L		107	79 - 118
2,2-Dichloropropane	20.0	21.6		ug/L		108	60 - 139
2-Butanone	150	151		ug/L		101	56 - 143
2-Chlorotoluene	20.0	20.6		ug/L		103	79 - 122
2-Hexanone	100	102		ug/L		102	57 - 139
4-Chlorotoluene	20.0	20.6		ug/L		103	78 - 122
4-Methyl-2-pentanone	100	101		ug/L		101	67 - 130
Acetone	150	158		ug/L		105	39 - 160
Acrolein	150	150		ug/L		100	39 - 155
Acrylonitrile	100	98.0		ug/L		98	63 - 135
Benzene	20.0	20.9		ug/L		105	42 - 138
Bromobenzene	20.0	21.0		ug/L		105	80 - 120
Bromochloromethane	20.0	19.8		ug/L		99	78 - 123
Bromodichloromethane	20.0	21.6		ug/L		108	79 - 125
Bromoform	20.0	17.5		ug/L		88	66 - 130
Bromomethane	20.0	16.7		ug/L		83	53 - 141
Carbon disulfide	20.0	20.4		ug/L		102	64 - 133
Carbon tetrachloride	20.0	20.8		ug/L		104	72 - 136
Chlorobenzene	20.0	21.2		ug/L		106	82 - 118
Chloroethane	20.0	14.1		ug/L		70	60 - 138
Chloroform	20.0	21.9		ug/L		110	79 - 124
Chloromethane	20.0	13.4	M	ug/L		67	50 - 139
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	78 - 123
cis-1,3-Dichloropropene	20.0	21.2		ug/L		106	75 - 124
Dibromochloromethane	20.0	20.8		ug/L		104	74 - 126
Dibromomethane	20.0	21.3		ug/L		107	79 - 123
Dichlorodifluoromethane	20.0	12.3		ug/L		61	32 - 152
Ethylbenzene	20.0	21.6		ug/L		108	79 - 121
Hexachlorobutadiene	20.0	16.7		ug/L		84	66 - 134
Isopropylbenzene	20.0	21.5		ug/L		108	72 - 131
m&p-Xylene	40.0	43.4		ug/L		109	80 - 121
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124
Methylene Chloride	20.0	21.1		ug/L		105	74 - 124
Naphthalene	20.0	20.1		ug/L		101	61 - 128
n-Butylbenzene	20.0	21.4		ug/L		107	75 - 128
N-Propylbenzene	20.0	21.9		ug/L		110	76 - 126
o-Xylene	20.0	21.3		ug/L		107	78 - 122
p-Isopropyltoluene	20.0	21.4		ug/L		107	77 - 127
sec-Butylbenzene	20.0	21.3		ug/L		107	77 - 126
Styrene	20.0	21.6		ug/L		108	78 - 123
tert-Butylbenzene	20.0	20.3		ug/L		102	78 - 124
Tetrachloroethene	20.0	21.0		ug/L		105	74 - 129
Toluene	20.0	21.4		ug/L		107	80 - 121
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	75 - 124
trans-1,3-Dichloropropene	20.0	21.4		ug/L		107	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55770/6

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	21.0		ug/L		105	79 - 123
Trichlorofluoromethane	20.0	17.2	M	ug/L		86	65 - 141
Vinyl chloride	20.0	14.6		ug/L		73	58 - 137
Xylenes, Total	60.0	64.7		ug/L		108	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCS 410-55770/9

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	100		ug/L		100	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCSD 410-55770/10

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	99.7	M	ug/L		100	54 - 146	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCSD 410-55770/8

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		104	78 - 124	0	20
1,1,1-Trichloroethane	20.0	22.0		ug/L		110	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	21.2		ug/L		106	71 - 121	2	20
1,1,2-Trichloroethane	20.0	22.1		ug/L		110	80 - 119	1	20
1,1-Dichloroethane	20.0	22.3		ug/L		111	77 - 125	4	20
1,1-Dichloroethene	20.0	20.9		ug/L		104	71 - 131	2	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-55770/8

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene	20.0	22.1		ug/L		110	79 - 125	3	20
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	69 - 129	5	20
1,2,3-Trichloropropane	20.0	21.4		ug/L		107	73 - 122	3	20
1,2,4-Trichlorobenzene	20.0	19.3		ug/L		97	69 - 130	2	20
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	76 - 124	4	20
1,2-Dibromo-3-Chloropropane	20.0	21.2		ug/L		106	62 - 128	4	20
1,2-Dibromoethane	20.0	20.5		ug/L		102	77 - 121	1	20
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 119	2	20
1,2-Dichloroethane	20.0	23.4		ug/L		117	73 - 128	0	20
1,2-Dichloropropane	20.0	21.9		ug/L		110	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	22.5		ug/L		113	75 - 124	4	20
1,3-Dichlorobenzene	20.0	21.9		ug/L		110	80 - 119	3	20
1,3-Dichloropropane	20.0	21.4		ug/L		107	80 - 119	2	20
1,4-Dichlorobenzene	20.0	21.8		ug/L		109	79 - 118	2	20
2,2-Dichloropropane	20.0	22.5		ug/L		112	60 - 139	4	20
2-Butanone	150	153		ug/L		102	56 - 143	1	20
2-Chlorotoluene	20.0	21.3		ug/L		107	79 - 122	3	20
2-Hexanone	100	103		ug/L		103	57 - 139	1	20
4-Chlorotoluene	20.0	21.6		ug/L		108	78 - 122	5	20
4-Methyl-2-pentanone	100	102		ug/L		102	67 - 130	2	20
Acetone	150	163		ug/L		109	39 - 160	3	20
Acrolein	150	150		ug/L		100	39 - 155	0	20
Acrylonitrile	100	99.2		ug/L		99	63 - 135	1	20
Benzene	20.0	21.5		ug/L		107	42 - 138	3	20
Bromobenzene	20.0	21.4		ug/L		107	80 - 120	2	20
Bromochloromethane	20.0	19.9		ug/L		100	78 - 123	1	20
Bromodichloromethane	20.0	22.0		ug/L		110	79 - 125	2	20
Bromoform	20.0	17.6		ug/L		88	66 - 130	1	20
Bromomethane	20.0	17.0		ug/L		85	53 - 141	2	20
Carbon disulfide	20.0	20.8		ug/L		104	64 - 133	2	20
Carbon tetrachloride	20.0	21.2		ug/L		106	72 - 136	2	20
Chlorobenzene	20.0	21.5		ug/L		108	82 - 118	2	20
Chloroethane	20.0	14.7		ug/L		74	60 - 138	4	20
Chloroform	20.0	22.4		ug/L		112	79 - 124	2	20
Chloromethane	20.0	13.5		ug/L		68	50 - 139	1	20
cis-1,2-Dichloroethene	20.0	21.9		ug/L		110	78 - 123	2	20
cis-1,3-Dichloropropene	20.0	21.5		ug/L		107	75 - 124	1	20
Dibromochloromethane	20.0	21.2		ug/L		106	74 - 126	2	20
Dibromomethane	20.0	21.6		ug/L		108	79 - 123	1	20
Dichlorodifluoromethane	20.0	14.0		ug/L		70	32 - 152	13	20
Ethylbenzene	20.0	22.1		ug/L		110	79 - 121	2	20
Hexachlorobutadiene	20.0	17.6		ug/L		88	66 - 134	5	20
Isopropylbenzene	20.0	22.1		ug/L		110	72 - 131	2	20
m&p-Xylene	40.0	44.5		ug/L		111	80 - 121	2	20
Methyl tertiary butyl ether	20.0	20.4		ug/L		102	71 - 124	1	20
Methylene Chloride	20.0	21.7		ug/L		109	74 - 124	3	20
Naphthalene	20.0	20.9		ug/L		104	61 - 128	4	20
n-Butylbenzene	20.0	22.4		ug/L		112	75 - 128	4	20
N-Propylbenzene	20.0	22.8		ug/L		114	76 - 126	4	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-55770/8

Matrix: Water

Analysis Batch: 55770

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	20.0	21.7		ug/L		108	78 - 122	2	20
p-Isopropyltoluene	20.0	22.3		ug/L		112	77 - 127	4	20
sec-Butylbenzene	20.0	22.3		ug/L		111	77 - 126	4	20
Styrene	20.0	21.9		ug/L		110	78 - 123	2	20
tert-Butylbenzene	20.0	21.3		ug/L		106	78 - 124	5	20
Tetrachloroethene	20.0	21.6		ug/L		108	74 - 129	3	20
Toluene	20.0	21.9		ug/L		109	80 - 121	2	20
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	75 - 124	3	20
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	73 - 127	2	20
Trichloroethene	20.0	21.5		ug/L		107	79 - 123	2	20
Trichlorofluoromethane	20.0	17.8	M	ug/L		89	65 - 141	3	20
Vinyl chloride	20.0	15.3		ug/L		77	58 - 137	5	20
Xylenes, Total	60.0	66.2		ug/L		110	79 - 121	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	104		89 - 112

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 13:12	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 13:12	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 13:12	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 13:12	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/21/20 13:12	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 13:12	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 13:12	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 13:12	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 13:12	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 13:12	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 13:12	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 13:12	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 13:12	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/21/20 13:12	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/21/20 13:12	1
Dibromofluoromethane (Surr)	97		80 - 119		10/21/20 13:12	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 13:12	1

Lab Sample ID: LCS 410-56668/6

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.6		ug/L		98	78 - 124
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	74 - 131
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	71 - 121
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125
1,1-Dichloroethene	20.0	20.7		ug/L		103	71 - 131
1,1-Dichloropropene	20.0	20.2		ug/L		101	79 - 125
1,2,3-Trichlorobenzene	20.0	21.8		ug/L		109	69 - 129
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	20.0	22.3		ug/L		111	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/L		98	62 - 128
1,2-Dibromoethane	20.0	20.4		ug/L		102	77 - 121
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	20.7		ug/L		103	73 - 128
1,2-Dichloropropane	20.0	20.8		ug/L		104	78 - 122
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		112	75 - 124
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119
1,3-Dichloropropane	20.0	20.2		ug/L		101	80 - 119
1,4-Dichlorobenzene	20.0	20.9		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	22.1		ug/L		111	60 - 139
2-Butanone	150	135		ug/L		90	56 - 143
2-Chlorotoluene	20.0	21.0		ug/L		105	79 - 122
2-Hexanone	100	98.4		ug/L		98	57 - 139
4-Chlorotoluene	20.0	20.9		ug/L		105	78 - 122
4-Methyl-2-pentanone	100	98.2		ug/L		98	67 - 130
Acetone	150	129		ug/L		86	39 - 160
Acrolein	150	120		ug/L		80	39 - 155
Acrylonitrile	100	86.3		ug/L		86	63 - 135
Benzene	20.0	20.1		ug/L		100	42 - 138
Bromobenzene	20.0	20.8		ug/L		104	80 - 120
Bromochloromethane	20.0	19.1		ug/L		96	78 - 123
Bromodichloromethane	20.0	19.7		ug/L		99	79 - 125
Bromoform	20.0	15.4		ug/L		77	66 - 130
Bromomethane	20.0	17.6		ug/L		88	53 - 141
Carbon disulfide	20.0	15.7		ug/L		78	64 - 133
Carbon tetrachloride	20.0	18.8		ug/L		94	72 - 136
Chlorobenzene	20.0	20.2		ug/L		101	82 - 118

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-56668/6

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	20.0	17.7		ug/L		88	60 - 138
Chloroform	20.0	20.6		ug/L		103	79 - 124
Chloromethane	20.0	18.2		ug/L		91	50 - 139
cis-1,2-Dichloroethene	20.0	21.5		ug/L		108	78 - 123
cis-1,3-Dichloropropene	20.0	20.9		ug/L		104	75 - 124
Dibromochloromethane	20.0	18.2		ug/L		91	74 - 126
Dibromomethane	20.0	20.1		ug/L		101	79 - 123
Dichlorodifluoromethane	20.0	13.9		ug/L		69	32 - 152
Ethylbenzene	20.0	21.1		ug/L		106	79 - 121
Hexachlorobutadiene	20.0	20.7		ug/L		104	66 - 134
Isopropylbenzene	20.0	21.6		ug/L		108	72 - 131
m&p-Xylene	40.0	42.2		ug/L		106	80 - 121
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124
Methylene Chloride	20.0	20.3		ug/L		101	74 - 124
Naphthalene	20.0	22.1		ug/L		110	61 - 128
n-Butylbenzene	20.0	22.0		ug/L		110	75 - 128
N-Propylbenzene	20.0	22.4		ug/L		112	76 - 126
o-Xylene	20.0	21.2		ug/L		106	78 - 122
p-Isopropyltoluene	20.0	22.8		ug/L		114	77 - 127
sec-Butylbenzene	20.0	22.5		ug/L		112	77 - 126
Styrene	20.0	21.9		ug/L		110	78 - 123
tert-Butylbenzene	20.0	21.5		ug/L		107	78 - 124
Tetrachloroethene	20.0	17.8		ug/L		89	74 - 129
Toluene	20.0	20.4		ug/L		102	80 - 121
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	21.2		ug/L		106	73 - 127
Trichloroethene	20.0	20.2		ug/L		101	79 - 123
Trichlorofluoromethane	20.0	18.5		ug/L		93	65 - 141
Vinyl chloride	20.0	19.1		ug/L		95	58 - 137
Xylenes, Total	60.0	63.4		ug/L		106	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-56668/9

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	99.8		ug/L		100	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-56668/9

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCSD 410-56668/10

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	99.9		ug/L		100	54 - 146	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCSD 410-56668/8

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124	1	20
1,1,1-Trichloroethane	20.0	20.1		ug/L		101	74 - 131	0	20
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	71 - 121	3	20
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	80 - 119	2	20
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125	0	20
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131	1	20
1,1-Dichloropropene	20.0	20.1		ug/L		100	79 - 125	1	20
1,2,3-Trichlorobenzene	20.0	21.6		ug/L		108	69 - 129	1	20
1,2,3-Trichloropropane	20.0	19.9		ug/L		100	73 - 122	0	20
1,2,4-Trichlorobenzene	20.0	22.1		ug/L		110	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	22.2		ug/L		111	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		96	62 - 128	2	20
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 121	2	20
1,2-Dichlorobenzene	20.0	20.9		ug/L		105	80 - 119	2	20
1,2-Dichloroethane	20.0	20.6		ug/L		103	73 - 128	0	20
1,2-Dichloropropane	20.0	20.7		ug/L		103	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		111	75 - 124	0	20
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119	0	20
1,3-Dichloropropane	20.0	19.9		ug/L		99	80 - 119	2	20
1,4-Dichlorobenzene	20.0	20.9		ug/L		105	79 - 118	0	20
2,2-Dichloropropane	20.0	22.1		ug/L		111	60 - 139	0	20
2-Butanone	150	133		ug/L		89	56 - 143	2	20
2-Chlorotoluene	20.0	21.1		ug/L		105	79 - 122	0	20
2-Hexanone	100	97.5		ug/L		98	57 - 139	1	20
4-Chlorotoluene	20.0	21.0		ug/L		105	78 - 122	0	20
4-Methyl-2-pentanone	100	96.8		ug/L		97	67 - 130	1	20
Acetone	150	128		ug/L		86	39 - 160	0	20
Acrolein	150	119		ug/L		80	39 - 155	1	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-56668/8

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrylonitrile	100	85.5		ug/L		85	63 - 135	1	20
Benzene	20.0	20.0		ug/L		100	42 - 138	0	20
Bromobenzene	20.0	20.7		ug/L		104	80 - 120	0	20
Bromochloromethane	20.0	18.8		ug/L		94	78 - 123	2	20
Bromodichloromethane	20.0	19.8		ug/L		99	79 - 125	0	20
Bromoform	20.0	15.1		ug/L		75	66 - 130	2	20
Bromomethane	20.0	15.6		ug/L		78	53 - 141	12	20
Carbon disulfide	20.0	15.7		ug/L		79	64 - 133	0	20
Carbon tetrachloride	20.0	18.9		ug/L		95	72 - 136	0	20
Chlorobenzene	20.0	20.0		ug/L		100	82 - 118	1	20
Chloroethane	20.0	17.2		ug/L		86	60 - 138	3	20
Chloroform	20.0	20.4		ug/L		102	79 - 124	1	20
Chloromethane	20.0	17.4		ug/L		87	50 - 139	4	20
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	20.6		ug/L		103	75 - 124	1	20
Dibromochloromethane	20.0	18.0		ug/L		90	74 - 126	1	20
Dibromomethane	20.0	19.9		ug/L		100	79 - 123	1	20
Dichlorodifluoromethane	20.0	13.9		ug/L		69	32 - 152	0	20
Ethylbenzene	20.0	21.0		ug/L		105	79 - 121	1	20
Hexachlorobutadiene	20.0	20.7		ug/L		104	66 - 134	0	20
Isopropylbenzene	20.0	21.5		ug/L		108	72 - 131	1	20
m&p-Xylene	40.0	42.0		ug/L		105	80 - 121	1	20
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124	0	20
Methylene Chloride	20.0	19.9		ug/L		100	74 - 124	2	20
Naphthalene	20.0	22.0		ug/L		110	61 - 128	0	20
n-Butylbenzene	20.0	22.0		ug/L		110	75 - 128	0	20
N-Propylbenzene	20.0	22.3		ug/L		111	76 - 126	0	20
o-Xylene	20.0	21.2		ug/L		106	78 - 122	0	20
p-Isopropyltoluene	20.0	22.9		ug/L		114	77 - 127	0	20
sec-Butylbenzene	20.0	22.5		ug/L		112	77 - 126	0	20
Styrene	20.0	21.6		ug/L		108	78 - 123	2	20
tert-Butylbenzene	20.0	21.1		ug/L		106	78 - 124	2	20
Tetrachloroethene	20.0	18.6		ug/L		93	74 - 129	5	20
Toluene	20.0	20.4		ug/L		102	80 - 121	0	20
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124	0	20
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	73 - 127	1	20
Trichloroethene	20.0	20.1		ug/L		100	79 - 123	0	20
Trichlorofluoromethane	20.0	18.5		ug/L		92	65 - 141	0	20
Vinyl chloride	20.0	19.1		ug/L		96	58 - 137	0	20
Xylenes, Total	60.0	63.2		ug/L		105	79 - 121	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-57112/10

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/22/20 01:23	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 01:23	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 01:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 01:23	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 01:23	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 01:23	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 01:23	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/22/20 01:23	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/22/20 01:23	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/22/20 01:23	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/22/20 01:23	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/22/20 01:23	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 01:23	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/22/20 01:23	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-57112/10

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 01:23	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 01:23	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 01:23	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 01:23	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/22/20 01:23	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/22/20 01:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/22/20 01:23	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/22/20 01:23	1
Dibromofluoromethane (Surr)	98		80 - 119		10/22/20 01:23	1
Toluene-d8 (Surr)	100		89 - 112		10/22/20 01:23	1

Lab Sample ID: LCS 410-57112/5

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124
1,1,1-Trichloroethane	20.0	20.3		ug/L		102	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	71 - 121
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.3		ug/L		102	77 - 125
1,1-Dichloroethene	20.0	20.5		ug/L		103	71 - 131
1,1-Dichloropropene	20.0	20.1		ug/L		100	79 - 125
1,2,3-Trichlorobenzene	20.0	22.0		ug/L		110	69 - 129
1,2,3-Trichloropropane	20.0	20.1		ug/L		101	73 - 122
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	20.0	22.2		ug/L		111	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.7		ug/L		99	62 - 128
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 121
1,2-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	20.9		ug/L		104	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-57112/5

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.5		ug/L		103	78 - 122
1,3,5-Trimethylbenzene	20.0	22.2		ug/L		111	75 - 124
1,3-Dichlorobenzene	20.0	20.9		ug/L		105	80 - 119
1,3-Dichloropropane	20.0	19.9		ug/L		100	80 - 119
1,4-Dichlorobenzene	20.0	20.9		ug/L		105	79 - 118
2,2-Dichloropropane	20.0	22.2		ug/L		111	60 - 139
2-Butanone	150	166		ug/L		111	56 - 143
2-Chlorotoluene	20.0	20.8		ug/L		104	79 - 122
2-Hexanone	100	104		ug/L		104	57 - 139
4-Chlorotoluene	20.0	20.9		ug/L		105	78 - 122
4-Methyl-2-pentanone	100	98.2		ug/L		98	67 - 130
Acetone	150	214		ug/L		143	39 - 160
Acrolein	150	119		ug/L		79	39 - 155
Acrylonitrile	100	88.3		ug/L		88	63 - 135
Benzene	20.0	19.9		ug/L		99	42 - 138
Bromobenzene	20.0	20.5		ug/L		103	80 - 120
Bromochloromethane	20.0	19.7		ug/L		98	78 - 123
Bromodichloromethane	20.0	19.5		ug/L		98	79 - 125
Bromoform	20.0	14.2		ug/L		71	66 - 130
Bromomethane	20.0	16.9		ug/L		85	53 - 141
Carbon disulfide	20.0	15.9		ug/L		79	64 - 133
Carbon tetrachloride	20.0	19.2		ug/L		96	72 - 136
Chlorobenzene	20.0	20.0		ug/L		100	82 - 118
Chloroethane	20.0	18.8		ug/L		94	60 - 138
Chloroform	20.0	20.7		ug/L		104	79 - 124
Chloromethane	20.0	20.7		ug/L		104	50 - 139
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	78 - 123
cis-1,3-Dichloropropene	20.0	20.1		ug/L		101	75 - 124
Dibromochloromethane	20.0	17.3		ug/L		87	74 - 126
Dibromomethane	20.0	20.1		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	16.7		ug/L		83	32 - 152
Ethylbenzene	20.0	21.0		ug/L		105	79 - 121
Hexachlorobutadiene	20.0	20.9		ug/L		105	66 - 134
Isopropylbenzene	20.0	21.6		ug/L		108	72 - 131
m&p-Xylene	40.0	42.2		ug/L		105	80 - 121
Methyl tertiary butyl ether	20.0	20.1		ug/L		101	71 - 124
Methylene Chloride	20.0	20.2		ug/L		101	74 - 124
Naphthalene	20.0	22.6		ug/L		113	61 - 128
n-Butylbenzene	20.0	21.9		ug/L		109	75 - 128
N-Propylbenzene	20.0	22.1		ug/L		111	76 - 126
o-Xylene	20.0	21.2		ug/L		106	78 - 122
p-Isopropyltoluene	20.0	22.7		ug/L		113	77 - 127
sec-Butylbenzene	20.0	22.3		ug/L		111	77 - 126
Styrene	20.0	21.5		ug/L		108	78 - 123
tert-Butylbenzene	20.0	21.8		ug/L		109	78 - 124
Tetrachloroethene	20.0	20.3		ug/L		102	74 - 129
Toluene	20.0	20.2		ug/L		101	80 - 121
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-57112/5

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.2		ug/L		101	79 - 123
Trichlorofluoromethane	20.0	19.8		ug/L		99	65 - 141
Vinyl chloride	20.0	21.3		ug/L		107	58 - 137
Xylenes, Total	60.0	63.4		ug/L		106	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	101		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-57112/7

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	106		ug/L		106	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-57112/6

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		96	78 - 124	1	20
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	71 - 121	0	20
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	80 - 119	3	20
1,1-Dichloroethane	20.0	20.2		ug/L		101	77 - 125	1	20
1,1-Dichloroethene	20.0	20.3		ug/L		101	71 - 131	1	20
1,1-Dichloropropene	20.0	20.1		ug/L		100	79 - 125	0	20
1,2,3-Trichlorobenzene	20.0	21.7		ug/L		108	69 - 129	1	20
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	73 - 122	1	20
1,2,4-Trichlorobenzene	20.0	22.3		ug/L		111	69 - 130	0	20
1,2,4-Trimethylbenzene	20.0	22.0		ug/L		110	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.4		ug/L		97	62 - 128	2	20
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121	1	20
1,2-Dichlorobenzene	20.0	20.9		ug/L		104	80 - 119	2	20
1,2-Dichloroethane	20.0	20.8		ug/L		104	73 - 128	0	20
1,2-Dichloropropane	20.0	20.7		ug/L		103	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	21.9		ug/L		110	75 - 124	1	20
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	80 - 119	1	20
1,3-Dichloropropane	20.0	19.9		ug/L		99	80 - 119	0	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-57112/6

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	79 - 118	1	20
2,2-Dichloropropane	20.0	21.9		ug/L		110	60 - 139	1	20
2-Butanone	150	172		ug/L		114	56 - 143	3	20
2-Chlorotoluene	20.0	20.8		ug/L		104	79 - 122	0	20
2-Hexanone	100	105		ug/L		105	57 - 139	1	20
4-Chlorotoluene	20.0	20.6		ug/L		103	78 - 122	2	20
4-Methyl-2-pentanone	100	98.2		ug/L		98	67 - 130	0	20
Acetone	150	231		ug/L		154	39 - 160	7	20
Acrolein	150	125		ug/L		83	39 - 155	5	20
Acrylonitrile	100	87.9		ug/L		88	63 - 135	0	20
Benzene	20.0	19.8		ug/L		99	42 - 138	1	20
Bromobenzene	20.0	20.5		ug/L		103	80 - 120	0	20
Bromochloromethane	20.0	19.4		ug/L		97	78 - 123	2	20
Bromodichloromethane	20.0	19.6		ug/L		98	79 - 125	1	20
Bromoform	20.0	14.4		ug/L		72	66 - 130	1	20
Bromomethane	20.0	19.2		ug/L		96	53 - 141	12	20
Carbon disulfide	20.0	16.0		ug/L		80	64 - 133	1	20
Carbon tetrachloride	20.0	19.2		ug/L		96	72 - 136	0	20
Chlorobenzene	20.0	19.8		ug/L		99	82 - 118	1	20
Chloroethane	20.0	18.4		ug/L		92	60 - 138	2	20
Chloroform	20.0	20.7		ug/L		103	79 - 124	0	20
Chloromethane	20.0	19.8		ug/L		99	50 - 139	5	20
cis-1,2-Dichloroethene	20.0	21.8		ug/L		109	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	75 - 124	1	20
Dibromochloromethane	20.0	17.5		ug/L		87	74 - 126	1	20
Dibromomethane	20.0	20.1		ug/L		101	79 - 123	0	20
Dichlorodifluoromethane	20.0	16.0		ug/L		80	32 - 152	4	20
Ethylbenzene	20.0	20.6		ug/L		103	79 - 121	2	20
Hexachlorobutadiene	20.0	20.6		ug/L		103	66 - 134	2	20
Isopropylbenzene	20.0	21.3		ug/L		106	72 - 131	1	20
m&p-Xylene	40.0	41.3		ug/L		103	80 - 121	2	20
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124	1	20
Methylene Chloride	20.0	20.0		ug/L		100	74 - 124	1	20
Naphthalene	20.0	22.2		ug/L		111	61 - 128	2	20
n-Butylbenzene	20.0	21.6		ug/L		108	75 - 128	1	20
N-Propylbenzene	20.0	21.9		ug/L		110	76 - 126	1	20
o-Xylene	20.0	21.0		ug/L		105	78 - 122	1	20
p-Isopropyltoluene	20.0	22.4		ug/L		112	77 - 127	1	20
sec-Butylbenzene	20.0	22.0		ug/L		110	77 - 126	1	20
Styrene	20.0	21.3		ug/L		107	78 - 123	1	20
tert-Butylbenzene	20.0	21.5		ug/L		107	78 - 124	2	20
Tetrachloroethene	20.0	19.6		ug/L		98	74 - 129	3	20
Toluene	20.0	20.0		ug/L		100	80 - 121	1	20
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	75 - 124	1	20
trans-1,3-Dichloropropene	20.0	20.1		ug/L		101	73 - 127	1	20
Trichloroethene	20.0	20.0		ug/L		100	79 - 123	1	20
Trichlorofluoromethane	20.0	19.6		ug/L		98	65 - 141	1	20
Vinyl chloride	20.0	20.7		ug/L		103	58 - 137	3	20
Xylenes, Total	60.0	62.3		ug/L		104	79 - 121	2	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-57112/8
Matrix: Water
Analysis Batch: 57112

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	105		ug/L		105	54 - 146	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-55436/1-A
Matrix: Water
Analysis Batch: 56028

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55436

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/20/20 20:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136	10/16/20 23:44	10/20/20 20:47	1
1,1,2,2-Tetrachloroethane (2C)	90		46 - 136	10/16/20 23:44	10/20/20 20:47	1

Lab Sample ID: LCS 410-55436/2-A
Matrix: Water
Analysis Batch: 56028

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.0999		ug/L		78	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	95		46 - 136
1,1,2,2-Tetrachloroethane (2C)	88		46 - 136

Lab Sample ID: LCSD 410-55436/3-A
Matrix: Water
Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55436

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.111	M	ug/L		87	60 - 140	11	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-55436/3-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55436

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136

Lab Sample ID: MB 410-55440/1-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55440

Analyte	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/20/20 04:39	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136	10/17/20 00:41	10/20/20 04:39	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/17/20 00:41	10/20/20 04:39	1

Lab Sample ID: LCS 410-55440/2-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55440

Analyte	Spike	LCS	LCS	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
Ethylene Dibromide (1C)				0.128	0.116		ug/L		91		60 - 140
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)			88		46 - 136						
1,1,2,2-Tetrachloroethane (2C)			92		46 - 136						

Lab Sample ID: LCSD 410-55440/3-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55440

Analyte	Spike	LCSD	LCSD	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
Ethylene Dibromide (1C)				0.128	0.115		ug/L		90		60 - 140	1	20
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)			93		46 - 136								
1,1,2,2-Tetrachloroethane (2C)			96		46 - 136								

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-55079/4

Matrix: Water

Analysis Batch: 55079

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide			0.40	U	0.50	0.40	0.25	mg/L		10/16/20 21:38	1
Chloride			0.30	U	0.40	0.30	0.20	mg/L		10/16/20 21:38	1
Sulfate			0.90	U	1.0	0.90	0.30	mg/L		10/16/20 21:38	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-55079/3

Matrix: Water

Analysis Batch: 55079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	6.79		mg/L		91	90 - 110
Chloride	3.00	2.73		mg/L		91	90 - 110
Sulfate	7.50	6.94		mg/L		93	90 - 110

Lab Sample ID: 410-16827-11 MS

Matrix: Water

Analysis Batch: 55079

Client Sample ID: GW077-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	2.0	U J1 Q	25.0	20.6	J1 D Q	mg/L		82	90 - 110
Chloride	7.1	J1 D	10.0	14.6	J1 D	mg/L		75	90 - 110
Sulfate	25	D	25.0	47.8	D	mg/L		93	90 - 110

Lab Sample ID: 410-16827-11 DU

Matrix: Water

Analysis Batch: 55079

Client Sample ID: GW077-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromide	2.0	U J1 Q	2.0	U Q	mg/L		NC	15
Chloride	7.1	J1 D	7.24	D	mg/L		2	15
Sulfate	25	D	24.5	D	mg/L		0.1	15

Lab Sample ID: MB 410-56653/4

Matrix: Water

Analysis Batch: 56653

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/21/20 13:36	1

Lab Sample ID: LCS 410-56653/3

Matrix: Water

Analysis Batch: 56653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.91		mg/L		105	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-54271/1-A

Matrix: Water

Analysis Batch: 54978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54271

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 18:46	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 18:46	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-54271/2-A

Matrix: Water

Analysis Batch: 54978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.405		mg/L		101	87 - 115
Manganese	0.0200	0.0201		mg/L		101	90 - 114

Lab Sample ID: MB 410-54272/1-A

Matrix: Water

Analysis Batch: 54810

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54272

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 10:07	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 10:07	1

Lab Sample ID: LCS 410-54272/2-A

Matrix: Water

Analysis Batch: 54810

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.451		mg/L		112	87 - 115
Manganese	0.0200	0.0215		mg/L		108	90 - 114

Lab Sample ID: MB 410-53744/1-A

Matrix: Water

Analysis Batch: 54673

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53744

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/14/20 21:43	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/14/20 21:43	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/14/20 21:43	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/14/20 21:43	1

Lab Sample ID: LCS 410-53744/2-A

Matrix: Water

Analysis Batch: 54673

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.422		mg/L		105	87 - 113
Magnesium	0.200	0.210		mg/L		105	85 - 113
Potassium	5.60	5.68		mg/L		101	86 - 114
Sodium	2.00	2.16		mg/L		108	87 - 115

Lab Sample ID: 410-16827-6 MS

Matrix: Water

Analysis Batch: 54673

Client Sample ID: GW053-204

Prep Type: Total Recoverable

Prep Batch: 53744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	110	J1	0.400	115	4	mg/L		46	87 - 113
Magnesium	16	J1	0.200	16.1	4	mg/L		82	85 - 113
Potassium	3.8	J1	5.60	9.68		mg/L		105	86 - 114
Sodium	34	J1	2.00	35.6	4	mg/L		93	87 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-16827-6 MSD

Matrix: Water

Analysis Batch: 54673

Client Sample ID: GW053-204

Prep Type: Total Recoverable

Prep Batch: 53744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	110	J1	0.400	114	4	mg/L		4	87 - 113	0	20
Magnesium	16	J1	0.200	16.1	4	mg/L		76	85 - 113	0	20
Potassium	3.8		5.60	9.51		mg/L		102	86 - 114	2	20
Sodium	34	J1	2.00	35.6	4	mg/L		91	87 - 115	0	20

Lab Sample ID: 410-16827-6 DU

Matrix: Water

Analysis Batch: 54673

Client Sample ID: GW053-204

Prep Type: Total Recoverable

Prep Batch: 53744

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	110	J1	113		mg/L		0.9	20
Magnesium	16	J1	15.8		mg/L		0.7	20
Potassium	3.8		3.73		mg/L		1	20
Sodium	34	J1	33.4		mg/L		1	20

Lab Sample ID: MB 410-53765/1-A

Matrix: Water

Analysis Batch: 55689

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53765

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/18/20 15:07	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/18/20 15:07	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/18/20 15:07	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/18/20 15:07	1

Lab Sample ID: LCS 410-53765/2-A

Matrix: Water

Analysis Batch: 55689

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.391		mg/L		98	87 - 113
Magnesium	0.200	0.202		mg/L		101	85 - 113
Potassium	5.60	4.87		mg/L		87	86 - 114
Sodium	2.00	2.09		mg/L		105	87 - 115

Lab Sample ID: MB 410-53769/1-A

Matrix: Water

Analysis Batch: 55719

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53769

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/18/20 17:02	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/18/20 17:02	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/18/20 17:02	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/18/20 17:02	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-53769/2-A

Matrix: Water

Analysis Batch: 55719

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.402		mg/L		101	87 - 113
Magnesium	0.200	0.196		mg/L		98	85 - 113
Potassium	5.60	4.80		mg/L		86	86 - 114
Sodium	2.00	2.04		mg/L		102	87 - 115

Lab Sample ID: MB 410-53772/1-A

Matrix: Water

Analysis Batch: 54462

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53772

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/14/20 16:12	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/14/20 16:12	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/14/20 16:12	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/14/20 16:12	1

Lab Sample ID: LCS 410-53772/2-A

Matrix: Water

Analysis Batch: 54462

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.405		mg/L		101	87 - 113
Magnesium	0.200	0.207		mg/L		103	85 - 113
Potassium	5.60	5.52		mg/L		99	86 - 114
Sodium	2.00	2.08		mg/L		104	87 - 115

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-53547/1-A

Matrix: Water

Analysis Batch: 56294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53547

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 18:07	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 18:07	1

Lab Sample ID: LCS 410-53547/2-A

Matrix: Water

Analysis Batch: 56294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0594		mg/L		99	84 - 116
Lead	0.0300	0.0304		mg/L		101	88 - 115

Lab Sample ID: MB 410-53551/1-A

Matrix: Water

Analysis Batch: 55194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53551

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/15/20 19:50	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 19:50	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 410-53551/2-A

Matrix: Water

Analysis Batch: 55194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0583		mg/L		97	84 - 116
Lead	0.0300	0.0300		mg/L		100	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-54353/33

Matrix: Water

Analysis Batch: 54353

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 21:48	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 21:48	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/13/20 21:48	1

Lab Sample ID: LCS 410-54353/34

Matrix: Water

Analysis Batch: 54353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	166		mg/L		88	82 - 106

Lab Sample ID: 410-16827-14 MS

Matrix: Water

Analysis Batch: 54353

Client Sample ID: GW033-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	75	J1	189	206	J1	mg/L		69	82 - 106

Lab Sample ID: 410-16827-14 DU

Matrix: Water

Analysis Batch: 54353

Client Sample ID: GW033-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	75		76.5		mg/L		2	5
Carbonate Alkalinity as CaCO ₃	6.0	U	6.0	U	mg/L		NC	5
Total Alkalinity as CaCO ₃ to pH 4.5	75	J1	76.5		mg/L		2	5

Lab Sample ID: 410-16827-15 DU

Matrix: Water

Analysis Batch: 54353

Client Sample ID: GW035-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO ₃	140		135		mg/L		1	5
Carbonate Alkalinity as CaCO ₃	6.0	U	6.0	U	mg/L		NC	5
Total Alkalinity as CaCO ₃ to pH 4.5	140		135		mg/L		1	5

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-61131/106

Matrix: Water

Analysis Batch: 61131

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/01/20 13:34	1

Lab Sample ID: LCS 410-61131/107

Matrix: Water

Analysis Batch: 61131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.40		mg/L		96	90 - 110

Lab Sample ID: 410-16827-1 MS

Matrix: Water

Analysis Batch: 61131

Client Sample ID: GW091-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.8	J1	1.00	2.65	J1	mg/L		88	90 - 110

Lab Sample ID: 410-16827-15 MS

Matrix: Water

Analysis Batch: 61131

Client Sample ID: GW035-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.049	J	1.00	1.06		mg/L		101	90 - 110

Lab Sample ID: 410-16827-1 DU

Matrix: Water

Analysis Batch: 61131

Client Sample ID: GW091-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	1.8	J1	1.78		mg/L		0.5	10

Lab Sample ID: 410-16827-15 DU

Matrix: Water

Analysis Batch: 61131

Client Sample ID: GW035-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.049	J	0.0440	J	mg/L		11	10

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

GC/MS VOA

Analysis Batch: 55770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-2	GW091-604	Total/NA	Water	8260C DOD	
410-16827-3	GW092-204	Total/NA	Water	8260C DOD	
410-16827-4	TB204-29	Total/NA	Water	8260C DOD	
410-16827-6	GW053-204	Total/NA	Water	8260C DOD	
410-16827-8	TB204-30	Total/NA	Water	8260C DOD	
410-16827-13	TB204-31	Total/NA	Water	8260C DOD	
410-16827-16	GW212-204	Total/NA	Water	8260C DOD	
410-16827-17	TB204-28	Total/NA	Water	8260C DOD	
MB 410-55770/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-55770/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-55770/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-55770/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-55770/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 56668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	8260C DOD	
410-16827-5	GW022-204	Total/NA	Water	8260C DOD	
410-16827-7	GW054-204	Total/NA	Water	8260C DOD	
410-16827-9	GW037-204	Total/NA	Water	8260C DOD	
410-16827-10	GW037-604	Total/NA	Water	8260C DOD	
410-16827-11	GW077-204	Total/NA	Water	8260C DOD	
410-16827-14	GW033-204	Total/NA	Water	8260C DOD	
MB 410-56668/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-56668/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-56668/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-56668/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-56668/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 57112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-15	GW035-204	Total/NA	Water	8260C DOD	
MB 410-57112/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-57112/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-57112/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-57112/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-57112/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 55436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-6	GW053-204	Total/NA	Water	8011	
410-16827-7	GW054-204	Total/NA	Water	8011	
410-16827-8	TB204-30	Total/NA	Water	8011	
410-16827-9	GW037-204	Total/NA	Water	8011	
410-16827-10	GW037-604	Total/NA	Water	8011	
410-16827-11	GW077-204	Total/NA	Water	8011	
410-16827-12	GW229-204	Total/NA	Water	8011	
410-16827-13	TB204-31	Total/NA	Water	8011	
410-16827-15	GW035-204	Total/NA	Water	8011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

GC Semi VOA (Continued)

Prep Batch: 55436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-16	GW212-204	Total/NA	Water	8011	
410-16827-17	TB204-28	Total/NA	Water	8011	
MB 410-55436/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55436/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55436/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 55440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	8011	
410-16827-2	GW091-604	Total/NA	Water	8011	
410-16827-3	GW092-204	Total/NA	Water	8011	
410-16827-4	TB204-29	Total/NA	Water	8011	
410-16827-5	GW022-204	Total/NA	Water	8011	
410-16827-14	GW033-204	Total/NA	Water	8011	
MB 410-55440/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55440/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55440/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 56028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-6	GW053-204	Total/NA	Water	8011	55436
410-16827-7	GW054-204	Total/NA	Water	8011	55436
410-16827-8	TB204-30	Total/NA	Water	8011	55436
410-16827-9	GW037-204	Total/NA	Water	8011	55436
410-16827-10	GW037-604	Total/NA	Water	8011	55436
410-16827-11	GW077-204	Total/NA	Water	8011	55436
410-16827-12	GW229-204	Total/NA	Water	8011	55436
410-16827-13	TB204-31	Total/NA	Water	8011	55436
410-16827-15	GW035-204	Total/NA	Water	8011	55436
410-16827-16	GW212-204	Total/NA	Water	8011	55436
410-16827-17	TB204-28	Total/NA	Water	8011	55436
MB 410-55436/1-A	Method Blank	Total/NA	Water	8011	55436
LCS 410-55436/2-A	Lab Control Sample	Total/NA	Water	8011	55436
LCSD 410-55436/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55436

Analysis Batch: 56079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	8011	55440
410-16827-2	GW091-604	Total/NA	Water	8011	55440
410-16827-3	GW092-204	Total/NA	Water	8011	55440
410-16827-4	TB204-29	Total/NA	Water	8011	55440
410-16827-5	GW022-204	Total/NA	Water	8011	55440
410-16827-14	GW033-204	Total/NA	Water	8011	55440
MB 410-55440/1-A	Method Blank	Total/NA	Water	8011	55440
LCS 410-55440/2-A	Lab Control Sample	Total/NA	Water	8011	55440
LCSD 410-55440/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55440

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

HPLC/IC

Analysis Batch: 55079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-2	GW091-604	Total/NA	Water	EPA 300.0 R2.1	
410-16827-3	GW092-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-5	GW022-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-5	GW022-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-6	GW053-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-7	GW054-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-7	GW054-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-9	GW037-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-10	GW037-604	Total/NA	Water	EPA 300.0 R2.1	
410-16827-11	GW077-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-14	GW033-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-14	GW033-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-15	GW035-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-16	GW212-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-55079/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55079/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-16827-11 MS	GW077-204	Total/NA	Water	EPA 300.0 R2.1	
410-16827-11 DU	GW077-204	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 56653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56653/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56653/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 53547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	3020A	
410-16827-2	GW091-604	Total/NA	Water	3020A	
410-16827-3	GW092-204	Total/NA	Water	3020A	
410-16827-5	GW022-204	Total/NA	Water	3020A	
410-16827-6	GW053-204	Total/NA	Water	3020A	
410-16827-7	GW054-204	Total/NA	Water	3020A	
410-16827-9	GW037-204	Total/NA	Water	3020A	
410-16827-10	GW037-604	Total/NA	Water	3020A	
410-16827-11	GW077-204	Total/NA	Water	3020A	
MB 410-53547/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53547/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 53551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-14	GW033-204	Total/NA	Water	3020A	
410-16827-15	GW035-204	Total/NA	Water	3020A	
410-16827-16	GW212-204	Total/NA	Water	3020A	
MB 410-53551/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53551/2-A	Lab Control Sample	Total/NA	Water	3020A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Metals

Prep Batch: 53744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-6	GW053-204	Total Recoverable	Water	3005A	
MB 410-53744/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53744/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-16827-6 MS	GW053-204	Total Recoverable	Water	3005A	
410-16827-6 MSD	GW053-204	Total Recoverable	Water	3005A	
410-16827-6 DU	GW053-204	Total Recoverable	Water	3005A	

Prep Batch: 53765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-9	GW037-204	Total Recoverable	Water	3005A	
MB 410-53765/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53765/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 53769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total Recoverable	Water	3005A	
410-16827-5	GW022-204	Total Recoverable	Water	3005A	
410-16827-7	GW054-204	Total Recoverable	Water	3005A	
410-16827-10	GW037-604	Total Recoverable	Water	3005A	
410-16827-11	GW077-204	Total Recoverable	Water	3005A	
410-16827-14	GW033-204	Total Recoverable	Water	3005A	
410-16827-15	GW035-204	Total Recoverable	Water	3005A	
410-16827-16	GW212-204	Total Recoverable	Water	3005A	
MB 410-53769/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53769/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 53772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-2	GW091-604	Total Recoverable	Water	3005A	
410-16827-3	GW092-204	Total Recoverable	Water	3005A	
MB 410-53772/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53772/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 54271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Dissolved	Water	Non-Digest Prep	
MB 410-54271/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54271/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 54272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-2	GW091-604	Dissolved	Water	Non-Digest Prep	
410-16827-3	GW092-204	Dissolved	Water	Non-Digest Prep	
410-16827-5	GW022-204	Dissolved	Water	Non-Digest Prep	
410-16827-6	GW053-204	Dissolved	Water	Non-Digest Prep	
410-16827-7	GW054-204	Dissolved	Water	Non-Digest Prep	
410-16827-9	GW037-204	Dissolved	Water	Non-Digest Prep	
410-16827-10	GW037-604	Dissolved	Water	Non-Digest Prep	
410-16827-11	GW077-204	Dissolved	Water	Non-Digest Prep	
410-16827-14	GW033-204	Dissolved	Water	Non-Digest Prep	
410-16827-15	GW035-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Metals (Continued)

Prep Batch: 54272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-16	GW212-204	Dissolved	Water	Non-Digest Prep	
MB 410-54272/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54272/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 54462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-2	GW091-604	Total Recoverable	Water	6010C	53772
410-16827-3	GW092-204	Total Recoverable	Water	6010C	53772
MB 410-53772/1-A	Method Blank	Total Recoverable	Water	6010C	53772
LCS 410-53772/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53772

Analysis Batch: 54673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-6	GW053-204	Total Recoverable	Water	6010C	53744
MB 410-53744/1-A	Method Blank	Total Recoverable	Water	6010C	53744
LCS 410-53744/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53744
410-16827-6 MS	GW053-204	Total Recoverable	Water	6010C	53744
410-16827-6 MSD	GW053-204	Total Recoverable	Water	6010C	53744
410-16827-6 DU	GW053-204	Total Recoverable	Water	6010C	53744

Analysis Batch: 54810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-2	GW091-604	Dissolved	Water	6010C	54272
410-16827-3	GW092-204	Dissolved	Water	6010C	54272
410-16827-5	GW022-204	Dissolved	Water	6010C	54272
410-16827-6	GW053-204	Dissolved	Water	6010C	54272
410-16827-7	GW054-204	Dissolved	Water	6010C	54272
410-16827-9	GW037-204	Dissolved	Water	6010C	54272
410-16827-10	GW037-604	Dissolved	Water	6010C	54272
410-16827-11	GW077-204	Dissolved	Water	6010C	54272
410-16827-14	GW033-204	Dissolved	Water	6010C	54272
410-16827-15	GW035-204	Dissolved	Water	6010C	54272
410-16827-16	GW212-204	Dissolved	Water	6010C	54272
MB 410-54272/1-A	Method Blank	Total/NA	Water	6010C	54272
LCS 410-54272/2-A	Lab Control Sample	Total/NA	Water	6010C	54272

Analysis Batch: 54856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-2	GW091-604	Total Recoverable	Water	6010C	53772
410-16827-3	GW092-204	Total Recoverable	Water	6010C	53772

Analysis Batch: 54978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Dissolved	Water	6010C	54271
MB 410-54271/1-A	Method Blank	Total/NA	Water	6010C	54271
LCS 410-54271/2-A	Lab Control Sample	Total/NA	Water	6010C	54271

Analysis Batch: 55194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-14	GW033-204	Total/NA	Water	6020A	53551
410-16827-15	GW035-204	Total/NA	Water	6020A	53551

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Metals (Continued)

Analysis Batch: 55194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-16	GW212-204	Total/NA	Water	6020A	53551
MB 410-53551/1-A	Method Blank	Total/NA	Water	6020A	53551
LCS 410-53551/2-A	Lab Control Sample	Total/NA	Water	6020A	53551

Analysis Batch: 55689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-9	GW037-204	Total Recoverable	Water	6010C	53765
MB 410-53765/1-A	Method Blank	Total Recoverable	Water	6010C	53765
LCS 410-53765/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53765

Analysis Batch: 55719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total Recoverable	Water	6010C	53769
410-16827-5	GW022-204	Total Recoverable	Water	6010C	53769
410-16827-7	GW054-204	Total Recoverable	Water	6010C	53769
410-16827-10	GW037-604	Total Recoverable	Water	6010C	53769
410-16827-11	GW077-204	Total Recoverable	Water	6010C	53769
410-16827-14	GW033-204	Total Recoverable	Water	6010C	53769
410-16827-15	GW035-204	Total Recoverable	Water	6010C	53769
410-16827-16	GW212-204	Total Recoverable	Water	6010C	53769
MB 410-53769/1-A	Method Blank	Total Recoverable	Water	6010C	53769
LCS 410-53769/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53769

Analysis Batch: 56294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	6020A	53547
410-16827-2	GW091-604	Total/NA	Water	6020A	53547
410-16827-3	GW092-204	Total/NA	Water	6020A	53547
410-16827-5	GW022-204	Total/NA	Water	6020A	53547
410-16827-6	GW053-204	Total/NA	Water	6020A	53547
410-16827-7	GW054-204	Total/NA	Water	6020A	53547
410-16827-9	GW037-204	Total/NA	Water	6020A	53547
410-16827-10	GW037-604	Total/NA	Water	6020A	53547
410-16827-11	GW077-204	Total/NA	Water	6020A	53547
MB 410-53547/1-A	Method Blank	Total/NA	Water	6020A	53547
LCS 410-53547/2-A	Lab Control Sample	Total/NA	Water	6020A	53547

General Chemistry

Analysis Batch: 54353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	2320B-2011	
410-16827-2	GW091-604	Total/NA	Water	2320B-2011	
410-16827-3	GW092-204	Total/NA	Water	2320B-2011	
410-16827-5	GW022-204	Total/NA	Water	2320B-2011	
410-16827-6	GW053-204	Total/NA	Water	2320B-2011	
410-16827-7	GW054-204	Total/NA	Water	2320B-2011	
410-16827-9	GW037-204	Total/NA	Water	2320B-2011	
410-16827-10	GW037-604	Total/NA	Water	2320B-2011	
410-16827-11	GW077-204	Total/NA	Water	2320B-2011	
410-16827-14	GW033-204	Total/NA	Water	2320B-2011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

General Chemistry (Continued)

Analysis Batch: 54353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-15	GW035-204	Total/NA	Water	2320B-2011	
410-16827-16	GW212-204	Total/NA	Water	2320B-2011	
MB 410-54353/33	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-54353/34	Lab Control Sample	Total/NA	Water	2320B-2011	
410-16827-14 MS	GW033-204	Total/NA	Water	2320B-2011	
410-16827-14 DU	GW033-204	Total/NA	Water	2320B-2011	
410-16827-15 DU	GW035-204	Total/NA	Water	2320B-2011	

Analysis Batch: 61131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16827-1	GW091-204	Total/NA	Water	353.2	
410-16827-2	GW091-604	Total/NA	Water	353.2	
410-16827-3	GW092-204	Total/NA	Water	353.2	
410-16827-5	GW022-204	Total/NA	Water	353.2	
410-16827-6	GW053-204	Total/NA	Water	353.2	
410-16827-7	GW054-204	Total/NA	Water	353.2	
410-16827-9	GW037-204	Total/NA	Water	353.2	
410-16827-10	GW037-604	Total/NA	Water	353.2	
410-16827-11	GW077-204	Total/NA	Water	353.2	
410-16827-14	GW033-204	Total/NA	Water	353.2	
410-16827-15	GW035-204	Total/NA	Water	353.2	
410-16827-16	GW212-204	Total/NA	Water	353.2	
MB 410-61131/106	Method Blank	Total/NA	Water	353.2	
LCS 410-61131/107	Lab Control Sample	Total/NA	Water	353.2	
410-16827-1 MS	GW091-204	Total/NA	Water	353.2	
410-16827-15 MS	GW035-204	Total/NA	Water	353.2	
410-16827-1 DU	GW091-204	Total/NA	Water	353.2	
410-16827-15 DU	GW035-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW091-204

Lab Sample ID: 410-16827-1

Date Collected: 10/09/20 10:45

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 19:04	NSK7	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 10:36	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55079	10/16/20 23:26	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56653	10/21/20 21:07	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54271	10/14/20 11:14	UJL8	ELLE
Dissolved	Analysis	6010C		1	54978	10/15/20 20:27	UCIG	ELLE
Total Recoverable	Prep	3005A			53769	10/13/20 10:37	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55719	10/18/20 18:38	UPJE	ELLE
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 18:44	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 23:58	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:37	KGQ6	ELLE

Client Sample ID: GW091-604

Lab Sample ID: 410-16827-2

Date Collected: 10/09/20 10:45

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 19:54	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 11:27	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55079	10/17/20 00:03	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 10:32	UPJE	ELLE
Total Recoverable	Prep	3005A			53772	10/13/20 10:40	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54462	10/14/20 17:40	UCIG	ELLE
Total Recoverable	Prep	3005A			53772	10/13/20 10:40	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54856	10/15/20 14:11	UPJE	ELLE
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 18:46	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 23:50	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:43	KGQ6	ELLE

Client Sample ID: GW092-204

Lab Sample ID: 410-16827-3

Date Collected: 10/08/20 14:00

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 20:16	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 11:44	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55079	10/17/20 01:15	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW092-204

Lab Sample ID: 410-16827-3

Date Collected: 10/08/20 14:00

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 10:35	UPJE	ELLE
Total Recoverable	Prep	3005A			53772	10/13/20 10:40	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54462	10/14/20 17:47	UCIG	ELLE
Total Recoverable	Prep	3005A			53772	10/13/20 10:40	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54856	10/15/20 14:15	UPJE	ELLE
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 18:51	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 23:43	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:44	KGQ6	ELLE

Client Sample ID: TB204-29

Lab Sample ID: 410-16827-4

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 16:14	TQ4J	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 12:01	AC3T	ELLE

Client Sample ID: GW022-204

Lab Sample ID: 410-16827-5

Date Collected: 10/09/20 12:10

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 19:26	NSK7	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 12:18	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55079	10/17/20 01:33	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55079	10/17/20 01:51	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 10:44	UPJE	ELLE
Total Recoverable	Prep	3005A			53769	10/13/20 10:37	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55719	10/18/20 18:22	UPJE	ELLE
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 18:53	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 23:35	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:45	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW053-204

Date Collected: 10/09/20 13:40

Date Received: 10/10/20 09:50

Lab Sample ID: 410-16827-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 20:38	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 09:02	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55079	10/17/20 02:28	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 10:47	UPJE	ELLE
Total Recoverable	Prep	3005A			53744	10/13/20 09:57	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54673	10/14/20 21:49	UPJE	ELLE
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 18:55	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 23:28	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:46	KGQ6	ELLE

Client Sample ID: GW054-204

Date Collected: 10/09/20 14:15

Date Received: 10/10/20 09:50

Lab Sample ID: 410-16827-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 19:47	NSK7	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 09:19	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55079	10/17/20 02:46	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55079	10/17/20 03:04	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 10:53	UPJE	ELLE
Total Recoverable	Prep	3005A			53769	10/13/20 10:37	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55719	10/18/20 18:25	UPJE	ELLE
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 18:57	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 23:13	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:47	KGQ6	ELLE

Client Sample ID: TB204-30

Date Collected: 10/09/20 13:00

Date Received: 10/10/20 09:50

Lab Sample ID: 410-16827-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 16:36	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 09:36	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW037-204

Date Collected: 10/09/20 08:50

Date Received: 10/10/20 09:50

Lab Sample ID: 410-16827-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 20:10	NSK7	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 10:26	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55079	10/17/20 03:22	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 10:56	UPJE	ELLE
Total Recoverable	Prep	3005A			53765	10/13/20 10:21	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55689	10/18/20 16:42	UPJE	ELLE
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 18:59	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 22:55	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:48	KGQ6	ELLE

Client Sample ID: GW037-604

Date Collected: 10/09/20 08:50

Date Received: 10/10/20 09:50

Lab Sample ID: 410-16827-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 20:32	NSK7	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 10:43	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55079	10/17/20 03:40	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 10:59	UPJE	ELLE
Total Recoverable	Prep	3005A			53769	10/13/20 10:37	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55719	10/18/20 18:00	UPJE	ELLE
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 19:01	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 23:20	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:50	KGQ6	ELLE

Client Sample ID: GW077-204

Date Collected: 10/09/20 12:38

Date Received: 10/10/20 09:50

Lab Sample ID: 410-16827-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 20:54	NSK7	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 11:00	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55079	10/17/20 04:34	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 11:02	UPJE	ELLE
Total Recoverable	Prep	3005A			53769	10/13/20 10:37	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55719	10/18/20 18:03	UPJE	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW077-204

Lab Sample ID: 410-16827-11

Date Collected: 10/09/20 12:38

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			53547	10/13/20 07:00	UJL8	ELLE
Total/NA	Analysis	6020A		1	56294	10/19/20 19:03	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 22:47	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:51	KGQ6	ELLE

Client Sample ID: GW229-204

Lab Sample ID: 410-16827-12

Date Collected: 10/09/20 11:40

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 11:17	AC3T	ELLE

Client Sample ID: TB204-31

Lab Sample ID: 410-16827-13

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 16:58	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 11:33	AC3T	ELLE

Client Sample ID: GW033-204

Lab Sample ID: 410-16827-14

Date Collected: 10/08/20 09:05

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 15:02	NSK7	ELLE
Total/NA	Prep	8011			55440	10/17/20 00:41	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 12:35	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55079	10/17/20 05:29	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55079	10/17/20 05:47	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 11:05	UPJE	ELLE
Total Recoverable	Prep	3005A			53769	10/13/20 10:37	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55719	10/18/20 18:06	UPJE	ELLE
Total/NA	Prep	3020A			53551	10/13/20 07:04	UJL8	ELLE
Total/NA	Analysis	6020A		1	55194	10/15/20 20:05	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 22:03	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 13:52	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Client Sample ID: GW035-204

Lab Sample ID: 410-16827-15

Date Collected: 10/09/20 09:55

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	57112	10/22/20 08:39	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 11:50	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55079	10/17/20 06:05	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 10:50	UPJE	ELLE
Total Recoverable	Prep	3005A			53769	10/13/20 10:37	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55719	10/18/20 18:09	UPJE	ELLE
Total/NA	Prep	3020A			53551	10/13/20 07:04	UJL8	ELLE
Total/NA	Analysis	6020A		1	55194	10/15/20 20:07	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 22:24	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 14:12	KGQ6	ELLE

Client Sample ID: GW212-204

Lab Sample ID: 410-16827-16

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 23:13	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 12:07	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55079	10/17/20 06:41	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54272	10/14/20 11:18	UJL8	ELLE
Dissolved	Analysis	6010C		1	54810	10/15/20 11:08	UPJE	ELLE
Total Recoverable	Prep	3005A			53769	10/13/20 10:37	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55719	10/18/20 18:18	UPJE	ELLE
Total/NA	Prep	3020A			53551	10/13/20 07:04	UJL8	ELLE
Total/NA	Analysis	6020A		1	55194	10/15/20 20:12	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	54353	10/13/20 22:39	JB	ELLE
Total/NA	Analysis	353.2		1	61131	11/01/20 14:15	KGQ6	ELLE

Client Sample ID: TB204-28

Lab Sample ID: 410-16827-17

Date Collected: 10/09/20 13:00

Matrix: Water

Date Received: 10/10/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55770	10/19/20 17:20	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 12:24	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16827-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-16827-1	GW091-204	Water	10/09/20 10:45	10/10/20 09:50	
410-16827-2	GW091-604	Water	10/09/20 10:45	10/10/20 09:50	
410-16827-3	GW092-204	Water	10/08/20 14:00	10/10/20 09:50	
410-16827-4	TB204-29	Water	10/09/20 13:00	10/10/20 09:50	
410-16827-5	GW022-204	Water	10/09/20 12:10	10/10/20 09:50	
410-16827-6	GW053-204	Water	10/09/20 13:40	10/10/20 09:50	
410-16827-7	GW054-204	Water	10/09/20 14:15	10/10/20 09:50	
410-16827-8	TB204-30	Water	10/09/20 13:00	10/10/20 09:50	
410-16827-9	GW037-204	Water	10/09/20 08:50	10/10/20 09:50	
410-16827-10	GW037-604	Water	10/09/20 08:50	10/10/20 09:50	
410-16827-11	GW077-204	Water	10/09/20 12:38	10/10/20 09:50	
410-16827-12	GW229-204	Water	10/09/20 11:40	10/10/20 09:50	
410-16827-13	TB204-31	Water	10/09/20 13:00	10/10/20 09:50	
410-16827-14	GW033-204	Water	10/08/20 09:05	10/10/20 09:50	
410-16827-15	GW035-204	Water	10/09/20 09:55	10/10/20 09:50	
410-16827-16	GW212-204	Water	10/09/20 13:00	10/10/20 09:50	
410-16827-17	TB204-28	Water	10/09/20 13:00	10/10/20 09:50	

Eurofins Lancaster Laboratories Env, LLC



410-16827 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-091-204							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)									
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS							
				Total Number of Bottles	VOCs	BTEX	(8260C)	BTEXN	(8260C)	EDB	(8011)	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn		(6020A/6010C)	Chloride, bromide, sulfate	Nitrate-Nitrite	(333.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(SM2320B)
1	GW091-204	10-09-2020	1045	10	3	—	2	1	1*	1	1	1									
2	GW091-604	10-09-2020	1045	10	3	—	2	1	1*	1	1	1									
3																					
4																					
5																					
6																					
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																					
SAMPLER(S): <i>G. Berye</i>										COURIER AND SHIPPING NUMBER: FedEx 8155 82826 5563											
RELINQUISHED BY:										RECEIVED BY:											
DATE										DATE											
TIME										TIME											
Printed Name and Signature:										Printed Name and Signature:											
<i>Galveston Berye</i>										<i>Nicole Ruff</i>											
Printed Name and Signature:										Printed Name and Signature:											
Printed Name and Signature:										Printed Name and Signature:											
Printed Name and Signature:										Printed Name and Signature:											

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-092-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PQ Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	EDB (8011)	Disinfectant (6010C)	Disinfectant (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM23208)	Carbon Dioxide (RSK-175)	Comments	
1	GW092-204	10-08-2020	1400 1345B	10	3	—	2	1	1*	1	1	1		 10-08-2020	
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5563					
RELINQUISHED BY:										RECEIVED BY:					
DATE										DATE					
TIME										TIME					
Printed Name and Signature: <i>Galveston Begaye</i>										Printed Name and Signature:					
DATE: 10-08-2020										DATE:					
TIME: 1615										TIME:					
Printed Name and Signature:										Printed Name and Signature:					
Printed Name and Signature:										Printed Name and Signature:					
Printed Name and Signature:										Printed Name and Signature: <i>Nicole Rest</i>					
Printed Name and Signature:										DATE: 10/10/20					
Printed Name and Signature:										TIME: 0950					

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-29						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA		YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		QUARTER: 4						
				ANALYSIS REQUIRED (Specify number of bottles)										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	(8011)	Total As, Pb, Cu, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS
1	TB204-29	10/9/2020	1300	4	2	—	2							JRL
2														
3														
4														
5														
Associated with: GW092-204 GW091-204 GW091-604														
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5563										
RELINQUISHED BY: _____ DATE: _____ TIME: _____				RECEIVED BY: _____ DATE: _____ TIME: _____										
Printed Name and Signature: J Livingston 2/2/20 10/9/2020 1615				Printed Name and Signature: _____										
Printed Name and Signature: _____				Printed Name and Signature: _____										
Printed Name and Signature: _____				Printed Name and Signature: Nicole Ruff 10/10/20 0950										

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 504-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-022-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST 106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)				
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW022-204	10-09-2020	1210	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
TB204-30																
SAMPLER(S): G. Begay				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5574												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: Enrique Begay				10-09-2020		1615		Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature: Enrique Sanchez				10-10-2020		9:52		

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-053-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5023208)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW053-204	10-09-2020	1340	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Beguise</i> RELINQUISHED BY: <i>G. Beguise</i> <i>BBB</i> 10-09-2020 1615 Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: _____ COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5574 RECEIVED BY: _____ Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: <i>Enrique Sanchez</i> 10-10-2020 942															

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER GOG-054-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (9011)	Total (As, Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (3542/208)		Carbon Dioxide (RSK-175)
1	GW054-204	10-09-2020	1415	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Beyze</i> RELINQUISHED BY: <i>Gabeon Beyze</i> Printed Name and Signature: <i>Gabeon Beyze</i> Printed Name and Signature: <i>Gabeon Beyze</i> Printed Name and Signature: <i>Gabeon Beyze</i> COURIER AND SHIPPING NUMBER: FedEx 81552826 5574 RECEIVED BY: <i>E. Duke</i> Printed Name and Signature: <i>E. Duke</i> Printed Name and Signature: <i>E. Duke</i> Printed Name and Signature: <i>E. Duke</i> TB204- 30 10-09-2020 1615 10-10-2020 0912															

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225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER			
												COC-TB204-30			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(BTEX)	(BTEX)	(BTEX)	EDB	(BTEX)	(BTEX)	(BTEX)	COMMENTS		
1	TB204-30	10/9/2020	1300	4	2	2	2	2	2	2	2	2			
2															
3															
4															
5	JRL														
Associated with: GW022-204 GW053-204 GW054-204															
SAMPLER(S): J Livingson				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5574											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingson				10/9/2020		1615		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature: Enrique Sanchez				DATE		TIME	

EA		225 Schöng Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-037-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSC-175)	Comments	
1	GW037-204	10-09-2020	0850	10	3	—	2	1	1*	1	1	1	—		
2	GW037-604	10-09-2020	0850	10	3	—	2	1	1*	1	1	1	—		
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB204- 31															
SAMPLER(S): <i>G. Begaye</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5633											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Galveston Begaye</i>				10-09-2020		1615		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: <i>Nicole Reiff</i>				10/10/20		0947	

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225 Schöng Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-077-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21205

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS		
				Total Number of Bottles	VOCs	BTEX	(a260C)	BTEX	(a260C)	EDB	(a260C)	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	(353.2)		Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide
1	GW077-204	10-9-2020	1238	10	3				2	1	1*	1	1	1					
2																			
3																			
4																			
5																			
6																			

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 18073-710

TB204- 31

SAMPLER(S):
D. Schueck

COURIER AND SHIPPING NUMBER:
FedEx 8155 2824 5433

RELINQUISHED BY:
D. Schueck

DATE
10-9-2020

TIME
1615

RECEIVED BY:
Nicole Ruff

DATE
10/10/20

TIME
0947

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-229-204			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(B260C) BTEX	(B260C) BTEX	(B260C) BTEX	(B260C) BTEX	(B260C) BTEX	(B260C) BTEX	(B260C) BTEX	COMMENTS		
1	GW229-204	10-09-2020	1140	2											
2															
3															
4															
5															
6															
COMMENTS:															
TB204- 31															
SAMPLER(S): G. Bejaye				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5633											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: G. Bejaye				10-09-2020		1615		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-TB204-31				
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020		QUARTER: 4				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED9 (8011)	Total As, Pb, Cu, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204-31	10/9/2020	1300	4	2			2								
2																
3																
4																
5	JRL															
Associated with: GW 037-204 GW 037-604 GW 077-204 GW 229-204																
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 ^{pw} 55635633												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature: J Livingston				10/9/2020		1615		Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature: Nicole Ruff				10/10/20		0947		

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-033-204						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)								
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS						
				Total Number of Bottles	VOCs	BTEX	(BTEXN)	(BTEXN)	ED8	(B011)	Total (As, Pb, Cd, Cr, Ni, Mn)	Dissolved Fe, Mn	(6020A/6010C)		Chloride, bromide, sulfate	Nitrate-Nitrite	(3532)	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(RSK-175)
1	GW033-204	10-08-2020	0905	10	3				2	1	1*	1	1	1						
2																				
3																				
4																				
5																				
6																				
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																				
SAMPLER(S): G. Begay										COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5552										
RELINQUISHED BY:										RECEIVED BY:										
DATE										DATE										
TIME										TIME										
Printed Name and Signature: G. Begay										Printed Name and Signature: Enrique Sanchez										
10-08-2020 1015										10/10/20 942										

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-035-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS	
				Total Number of Bottles	VOCs	BTEX	(2260C) BTEXN	(2260C) ED8	(8011) Total (As, Pb, Cd, Ni, Mg)	Dissolved Fe, Mn (6020A/6010C)	(6010C) Chloride, bromide, sulfate	(3000) Nitrate-Nitrite	(3532) Alkalinity (Total, Carbonate, and Bicarbonate)	(SM2320B) Carbon Dioxide	(SK-175) Methane		(SK-175)
1	GW035-204	10-09-2020	0955	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): G. Beye										COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5552							
RELINQUISHED BY:										RECEIVED BY:							
DATE										DATE							
TIME										TIME							
Printed Name and Signature: G. Hower Beye										Printed Name and Signature: Enriqle Sanchez							
10-09-2020 1615										10/10/20 942							
Printed Name and Signature:										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature:							

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-212-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eest.com EA Amanda Smith: asmith@eest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As Pb,Ca,Na,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (354.2)	Carbon Dioxide (SM2320B)	Methane (MSK-175)	COMMENTS
1	GW212-204	10-09-2020	1300	10	3	—		2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begay</i>																
COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5552																
RELINQUISHED BY: DATE TIME RECEIVED BY: DATE TIME																
Printed Name and Signature: <i>Galveston Begay</i> 10-09-2020 1615																
Printed Name and Signature: _____																
Printed Name and Signature: _____																
Printed Name and Signature: <i>Enrique Sanchez</i> 10-10-20 942																

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EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-28	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4					
LAB CONTACT: Kay Hower		KayHower@eurofinsUS.com				Eurofins 1 (717) 556-7258									
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	BTEXN (8260C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	COMMENTS		
1	TB204-28	10/9/2020	1300	4	2	—	2								
2															
3															
4	JRL														
5															
Associated with: GW033-204 GW035-204 GW212-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5552											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/9/2020	1615	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Enrique Sanchez						10-10-2020 9/42			

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-16827-1

Login Number: 16827**List Number: 1****Creator: Reiff, Nicole L****List Source: Eurofins Lancaster Laboratories Env**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-17030-1

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 1

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/19/2020 12:17:51 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Darlene Bandy
Project Manager I
11/19/2020 12:17:51 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Job ID: 410-17030-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17030-1

Revision 1

This revision was created in order to correct the time discrepancy for the 3020 digestion for sample 410-17030-11, as well as to not report the method duplicate for Bicarbonate and Carbonate Alkalinity, as these are calculated analytes and RPD limits are not available.

Receipt

The samples were received on 10/13/2020 10:44 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.5° C, 1.0° C, 1.1° C and 1.1° C.

GC/MS VOA

Method 8260C DOD: Surrogate 1,2-Dichloroethane-d4 recovery for the following samples in analytical batch 410-55702 was outside the upper control limit: GW206-204 (410-17030-5), GW230-204 (410-17030-6), GW241-428-204 (410-17030-7) and TB204-35 (410-17030-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW049-204 (410-17030-1), GW050-204 (410-17030-2), GW052-204 (410-17030-3), TB204-33 (410-17030-4), GW206-204 (410-17030-5), GW230-204 (410-17030-6), GW241-428-204 (410-17030-7), TB204-35 (410-17030-8) and GW009-204 (410-17030-9). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-56668 recovered outside acceptance criteria, low biased, for Acetone and Tetrachloroethene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C DOD: The continuing calibration verification (CCV) analyzed on analytical batch 410-56668 is compliant under 8260C/D method criteria for 2-Butanone. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260C DOD: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: GW009-204 (410-17030-9). Elevated reporting limits (RLs) are provided.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-57112 recovered outside acceptance criteria, low biased, for Bromoform. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-57707 recovered outside acceptance criteria, low biased, for Carbon disulfide and Tetrachloroethene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8011: The 1,1,2,2-Tetrachloroethane surrogate recovery for the following samples was outside acceptance limits (low biased) on the primary column: GW026-204 (410-17030-13). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Job ID: 410-17030-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW049-204

Lab Sample ID: 410-17030-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	2.1	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	150	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	370	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	200		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	30		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	4.6		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	38		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	71		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	71	J1	8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	4.6		0.50	0.45	0.20	mg/L	5			353.2	Total/NA

Client Sample ID: GW050-204

Lab Sample ID: 410-17030-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	1.6	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	71	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	69	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	63		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	9.2		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	26		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Arsenic	0.00089	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	82		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	82		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.8		0.20	0.18	0.080	mg/L	2			353.2	Total/NA

Client Sample ID: GW052-204

Lab Sample ID: 410-17030-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	75	D	8.0	6.0	4.0	mg/L	20			EPA 300.0 R2.1	Total/NA
Sulfate	120	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	75		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	10		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	3.7		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	30		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Arsenic	0.00087	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	84		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW052-204 (Continued)

Lab Sample ID: 410-17030-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	84		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.3		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-33

Lab Sample ID: 410-17030-4

No Detections.

Client Sample ID: GW206-204

Lab Sample ID: 410-17030-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	54	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	56	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	43		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	5.7		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	92		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	92		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW230-204

Lab Sample ID: 410-17030-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	28	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	48	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	44		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.1		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	23		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	96		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	96		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.74		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW241-428-204

Lab Sample ID: 410-17030-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.75	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (2C)	0.023	J J1	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	38	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	44	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	51		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW241-428-204 (Continued)

Lab Sample ID: 410-17030-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6.9		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.48		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-35

Lab Sample ID: 410-17030-8

No Detections.

Client Sample ID: GW009-204

Lab Sample ID: 410-17030-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (2C)	0.017	J	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Bromide	2.9	D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	190	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	250	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	180		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	26		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	66		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.62		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Bicarbonate Alkalinity as CaCO ₃	160		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	160		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	4.8		1.0	0.90	0.40	mg/L	10		353.2	Total/NA

Client Sample ID: GW105-204

Lab Sample ID: 410-17030-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	48	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	60	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	57		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.3		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00076	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00022	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	91		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	91		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW105-204 (Continued)

Lab Sample ID: 410-17030-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	1.4		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW107-204

Lab Sample ID: 410-17030-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	37	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	52	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	49		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.4		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00073	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	95		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	95		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.83		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-34

Lab Sample ID: 410-17030-12

No Detections.

Client Sample ID: GW026-204

Lab Sample ID: 410-17030-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	53	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	58	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	55		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.2		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.8		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00073	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00021	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	85		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	85		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW043-204

Lab Sample ID: 410-17030-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	41	D	8.0	6.0	4.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Sulfate	65	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	55		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.6		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW043-204 (Continued)

Lab Sample ID: 410-17030-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2.8		0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00092	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Recoverable Total/NA
Bicarbonate Alkalinity as CaCO ₃	96		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	96		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.94		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW036-204

Lab Sample ID: 410-17030-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.95	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.12		0.029	0.019	0.0095	ug/L	1		8011	Total/NA
Chloride	16	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	41	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	42		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	5.8		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.2		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	25		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00074	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.061	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-32

Lab Sample ID: 410-17030-16

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW049-204

Lab Sample ID: 410-17030-1

Date Collected: 10/12/20 10:45

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:35	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 17:35	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 17:35	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 17:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 17:35	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 17:35	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:35	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 17:35	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 17:35	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 17:35	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/21/20 17:35	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 17:35	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 17:35	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 17:35	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:35	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 17:35	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 17:35	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW049-204

Lab Sample ID: 410-17030-1

Date Collected: 10/12/20 10:45

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 17:35	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:35	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 17:35	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 17:35	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:35	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 17:35	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 17:35	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:35	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/21/20 17:35	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/21/20 17:35	1
Dibromofluoromethane (Surr)	98		80 - 119		10/21/20 17:35	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 17:35	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/20/20 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	108		46 - 136	10/16/20 23:44	10/20/20 16:32	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/16/20 23:44	10/20/20 16:32	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.1	J D	2.5	2.0	1.3	mg/L		10/17/20 14:37	5
Chloride	150	D	20	15	10	mg/L		10/17/20 14:54	50
Sulfate	370	D	50	45	15	mg/L		10/17/20 14:54	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	200		0.20	0.15	0.096	mg/L		10/16/20 09:40	1
Magnesium	30		0.10	0.075	0.040	mg/L		10/16/20 09:40	1
Potassium	4.6		0.50	0.38	0.20	mg/L		10/18/20 14:43	1
Sodium	38		1.0	0.50	0.24	mg/L		10/18/20 14:43	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/19/20 12:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW049-204

Lab Sample ID: 410-17030-1

Date Collected: 10/12/20 10:45

Matrix: Water

Date Received: 10/13/20 10:44

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L	—	10/19/20 12:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L	—	10/26/20 12:19	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/26/20 12:19	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	71		8.0	6.0	8.0	mg/L	—	10/15/20 20:31	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/15/20 20:31	1
Total Alkalinity as CaCO ₃ to pH 4.5	71	J1	8.0	6.0	8.0	mg/L	—	10/15/20 20:31	1
Nitrate Nitrite as N	4.6		0.50	0.45	0.20	mg/L	—	11/04/20 12:20	5

Client Sample ID: GW050-204

Lab Sample ID: 410-17030-2

Date Collected: 10/12/20 11:15

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 03:14	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/19/20 03:14	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 03:14	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 03:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 03:14	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 03:14	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 03:14	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 03:14	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/19/20 03:14	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/19/20 03:14	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 03:14	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/19/20 03:14	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/19/20 03:14	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/19/20 03:14	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/19/20 03:14	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 03:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW050-204

Lab Sample ID: 410-17030-2

Date Collected: 10/12/20 11:15

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 03:14	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:14	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 03:14	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/19/20 03:14	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 03:14	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:14	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 03:14	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 03:14	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:14	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:14	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 03:14	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:14	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		81 - 118		10/19/20 03:14	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 03:14	1
Dibromofluoromethane (Surr)	103		80 - 119		10/19/20 03:14	1
Toluene-d8 (Surr)	103		89 - 112		10/19/20 03:14	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 16:49	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW050-204

Lab Sample ID: 410-17030-2

Date Collected: 10/12/20 11:15

Matrix: Water

Date Received: 10/13/20 10:44

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	115		46 - 136	10/16/20 23:44	10/20/20 16:49	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/16/20 23:44	10/20/20 16:49	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.6	J D	2.5	2.0	1.3	mg/L		10/17/20 15:45	5
Chloride	71	D	20	15	10	mg/L		10/17/20 16:02	50
Sulfate	69	D	5.0	4.5	1.5	mg/L		10/17/20 15:45	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	63		0.20	0.15	0.096	mg/L		10/16/20 09:44	1
Magnesium	9.2		0.10	0.075	0.040	mg/L		10/16/20 09:44	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/18/20 14:46	1
Sodium	26		1.0	0.50	0.24	mg/L		10/18/20 14:46	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:01	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00089	J	0.0020	0.0016	0.00068	mg/L		10/26/20 12:21	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 12:21	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	82		8.0	6.0	8.0	mg/L		10/15/20 20:51	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 20:51	1
Total Alkalinity as CaCO ₃ to pH 4.5	82		8.0	6.0	8.0	mg/L		10/15/20 20:51	1
Nitrate Nitrite as N	1.8		0.20	0.18	0.080	mg/L		11/04/20 12:23	2

Client Sample ID: GW052-204

Lab Sample ID: 410-17030-3

Date Collected: 10/12/20 11:45

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:57	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 17:57	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 17:57	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 17:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 17:57	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW052-204

Lab Sample ID: 410-17030-3

Date Collected: 10/12/20 11:45

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:57	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 17:57	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:57	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 17:57	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 17:57	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 17:57	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/21/20 17:57	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 17:57	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 17:57	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 17:57	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:57	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 17:57	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 17:57	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 17:57	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 17:57	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 17:57	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 17:57	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 17:57	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 17:57	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW052-204

Lab Sample ID: 410-17030-3

Date Collected: 10/12/20 11:45

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 17:57	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 17:57	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/21/20 17:57	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/21/20 17:57	1
Dibromofluoromethane (Surr)	99		80 - 119		10/21/20 17:57	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 17:57	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	115		46 - 136	10/16/20 23:44	10/20/20 17:39	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/16/20 23:44	10/20/20 17:39	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 05:59	5
Chloride	75	D	8.0	6.0	4.0	mg/L		10/25/20 03:20	20
Sulfate	120	D	50	45	15	mg/L		10/18/20 06:17	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	75		0.20	0.15	0.096	mg/L		10/14/20 15:55	1
Magnesium	10		0.10	0.075	0.040	mg/L		10/14/20 15:55	1
Potassium	3.7		0.50	0.38	0.20	mg/L		10/14/20 15:55	1
Sodium	30		1.0	0.50	0.24	mg/L		10/14/20 15:55	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:14	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00087	J	0.0020	0.0016	0.00068	mg/L		10/26/20 12:22	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 12:22	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	84		8.0	6.0	8.0	mg/L		10/15/20 21:04	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 21:04	1
Total Alkalinity as CaCO3 to pH 4.5	84		8.0	6.0	8.0	mg/L		10/15/20 21:04	1
Nitrate Nitrite as N	2.3		0.10	0.090	0.040	mg/L		11/04/20 12:24	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: TB204-33

Lab Sample ID: 410-17030-4

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:45	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 21:45	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:45	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:45	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:45	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:45	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:45	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 21:45	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 21:45	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/18/20 21:45	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 21:45	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 21:45	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 21:45	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 21:45	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:45	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 21:45	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/18/20 21:45	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: TB204-33

Lab Sample ID: 410-17030-4

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:45	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 21:45	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 21:45	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 21:45	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 21:45	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 21:45	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 21:45	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 21:45	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		81 - 118		10/18/20 21:45	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/18/20 21:45	1
Dibromofluoromethane (Surr)	104		80 - 119		10/18/20 21:45	1
Toluene-d8 (Surr)	102		89 - 112		10/18/20 21:45	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	110		46 - 136	10/16/20 23:44	10/20/20 17:56	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	10/16/20 23:44	10/20/20 17:56	1

Client Sample ID: GW206-204

Lab Sample ID: 410-17030-5

Date Collected: 10/12/20 13:35

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:58	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 03:58	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW206-204

Lab Sample ID: 410-17030-5

Date Collected: 10/12/20 13:35

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 03:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:58	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:58	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:58	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:58	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 03:58	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 03:58	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 03:58	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 03:58	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 03:58	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 03:58	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 03:58	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:58	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 03:58	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/19/20 03:58	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 03:58	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 03:58	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 03:58	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/19/20 03:58	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 03:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW206-204

Lab Sample ID: 410-17030-5

Date Collected: 10/12/20 13:35

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 03:58	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/19/20 03:58	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 03:58	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/19/20 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121	Q	81 - 118		10/19/20 03:58	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/19/20 03:58	1
Dibromofluoromethane (Surr)	105		80 - 119		10/19/20 03:58	1
Toluene-d8 (Surr)	102		89 - 112		10/19/20 03:58	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	111		46 - 136	10/16/20 23:44	10/20/20 18:13	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/16/20 23:44	10/20/20 18:13	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 20:40	5
Chloride	54	D	20	15	10	mg/L		10/17/20 20:58	50
Sulfate	56	D	5.0	4.5	1.5	mg/L		10/17/20 20:40	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	43		0.20	0.15	0.096	mg/L		10/14/20 15:52	1
Magnesium	5.7		0.10	0.075	0.040	mg/L		10/14/20 15:52	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/14/20 15:52	1
Sodium	26		1.0	0.50	0.24	mg/L		10/14/20 15:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:04	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:04	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/26/20 12:24	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 12:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	92		8.0	6.0	8.0	mg/L		10/15/20 21:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW206-204

Lab Sample ID: 410-17030-5

Date Collected: 10/12/20 13:35

Matrix: Water

Date Received: 10/13/20 10:44

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 21:11	1
Total Alkalinity as CaCO ₃ to pH 4.5	92		8.0	6.0	8.0	mg/L		10/15/20 21:11	1
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L		11/04/20 12:25	1

Client Sample ID: GW230-204

Lab Sample ID: 410-17030-6

Date Collected: 10/12/20 09:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:20	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/19/20 04:20	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:20	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/19/20 04:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:20	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:20	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/19/20 04:20	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:20	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 04:20	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/19/20 04:20	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/19/20 04:20	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/19/20 04:20	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/19/20 04:20	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/19/20 04:20	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/19/20 04:20	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/19/20 04:20	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/19/20 04:20	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/19/20 04:20	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW230-204

Lab Sample ID: 410-17030-6

Date Collected: 10/12/20 09:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/19/20 04:20	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L	—	10/19/20 04:20	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 04:20	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/19/20 04:20	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/19/20 04:20	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/19/20 04:20	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/19/20 04:20	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/19/20 04:20	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L	—	10/19/20 04:20	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/19/20 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119	Q	81 - 118		10/19/20 04:20	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/19/20 04:20	1
Dibromofluoromethane (Surr)	103		80 - 119		10/19/20 04:20	1
Toluene-d8 (Surr)	103		89 - 112		10/19/20 04:20	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L	—	10/20/20 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	104		46 - 136	10/16/20 23:44	10/20/20 18:29	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/16/20 23:44	10/20/20 18:29	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	10/17/20 21:16	5
Chloride	28	D	2.0	1.5	1.0	mg/L	—	10/17/20 21:16	5
Sulfate	48	D	5.0	4.5	1.5	mg/L	—	10/17/20 21:16	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW230-204

Lab Sample ID: 410-17030-6

Date Collected: 10/12/20 09:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	44		0.20	0.15	0.096	mg/L		10/14/20 15:27	1
Magnesium	6.1		0.10	0.075	0.040	mg/L		10/14/20 20:58	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/14/20 15:27	1
Sodium	23		1.0	0.50	0.24	mg/L		10/14/20 20:58	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:17	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L		10/26/20 12:26	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 12:26	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	96		8.0	6.0	8.0	mg/L		10/15/20 21:17	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 21:17	1
Total Alkalinity as CaCO ₃ to pH 4.5	96		8.0	6.0	8.0	mg/L		10/15/20 21:17	1
Nitrate Nitrite as N	0.74		0.10	0.090	0.040	mg/L		11/04/20 12:27	1

Client Sample ID: GW241-428-204

Lab Sample ID: 410-17030-7

Date Collected: 10/12/20 14:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 18:20	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 18:20	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 18:20	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 18:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 18:20	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/21/20 18:20	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 18:20	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 18:20	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/21/20 18:20	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW241-428-204

Lab Sample ID: 410-17030-7

Date Collected: 10/12/20 14:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 18:20	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/21/20 18:20	1
Acetone	0.75	J Q	20	2.0	0.70	ug/L		10/21/20 18:20	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 18:20	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 18:20	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 18:20	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 18:20	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 18:20	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 18:20	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 18:20	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 18:20	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 18:20	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 18:20	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 18:20	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 18:20	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 18:20	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 18:20	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/21/20 18:20	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/21/20 18:20	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW241-428-204

Lab Sample ID: 410-17030-7

Date Collected: 10/12/20 14:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 119		10/21/20 18:20	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 18:20	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.023	J J1	0.029	0.019	0.0096	ug/L		10/20/20 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	133		46 - 136	10/16/20 23:44	10/20/20 18:46	1
1,1,2,2-Tetrachloroethane (2C)	115		46 - 136	10/16/20 23:44	10/20/20 18:46	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 21:52	5
Chloride	38	D	20	15	10	mg/L		10/17/20 22:46	50
Sulfate	44	D	5.0	4.5	1.5	mg/L		10/17/20 21:52	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	51		0.20	0.15	0.096	mg/L		10/14/20 15:37	1
Magnesium	6.9		0.10	0.075	0.040	mg/L		10/14/20 15:37	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/14/20 15:37	1
Sodium	26		1.0	0.50	0.24	mg/L		10/14/20 15:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:20	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:24	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	130		8.0	6.0	8.0	mg/L		10/15/20 21:33	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 21:33	1
Total Alkalinity as CaCO3 to pH 4.5	130		8.0	6.0	8.0	mg/L		10/15/20 21:33	1
Nitrate Nitrite as N	0.48		0.10	0.090	0.040	mg/L		11/04/20 12:28	1

Client Sample ID: TB204-35

Lab Sample ID: 410-17030-8

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:07	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: TB204-35

Lab Sample ID: 410-17030-8

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 22:07	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:07	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:07	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:07	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:07	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:07	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 22:07	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 22:07	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/18/20 22:07	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 22:07	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 22:07	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 22:07	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 22:07	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:07	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 22:07	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/18/20 22:07	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:07	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 22:07	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 22:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: TB204-35

Lab Sample ID: 410-17030-8

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 22:07	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 22:07	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 22:07	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 22:07	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 22:07	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119	Q	81 - 118		10/18/20 22:07	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/18/20 22:07	1
Dibromofluoromethane (Surr)	103		80 - 119		10/18/20 22:07	1
Toluene-d8 (Surr)	101		89 - 112		10/18/20 22:07	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/20/20 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	107		46 - 136	10/16/20 23:44	10/20/20 19:03	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/16/20 23:44	10/20/20 19:03	1

Client Sample ID: GW009-204

Lab Sample ID: 410-17030-9

Date Collected: 10/12/20 13:53

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
1,1,1-Trichloroethane	5.0	U	10	5.0	3.0	ug/L		10/21/20 18:42	10
1,1,2,2-Tetrachloroethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
1,1,2-Trichloroethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
1,1-Dichloroethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
1,1-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
1,1-Dichloropropene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
1,2,3-Trichlorobenzene	10	U	50	10	4.0	ug/L		10/21/20 18:42	10
1,2,3-Trichloropropane	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
1,2,4-Trichlorobenzene	10	U	50	10	3.0	ug/L		10/21/20 18:42	10
1,2,4-Trimethylbenzene	20	U	50	20	10	ug/L		10/21/20 18:42	10
1,2-Dibromo-3-Chloropropane	10	U	50	10	3.0	ug/L		10/21/20 18:42	10
1,2-Dibromoethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
1,2-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW009-204

Lab Sample ID: 410-17030-9

Date Collected: 10/12/20 13:53

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	5.0	U	10	5.0	3.0	ug/L		10/21/20 18:42	10
1,2-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
1,3,5-Trimethylbenzene	10	U	50	10	3.0	ug/L		10/21/20 18:42	10
1,3-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
1,3-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
1,4-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
2,2-Dichloropropane	5.0	U	10	5.0	3.0	ug/L		10/21/20 18:42	10
2-Butanone	10	U Q	100	10	3.0	ug/L		10/21/20 18:42	10
2-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
2-Hexanone	10	U	100	10	3.0	ug/L		10/21/20 18:42	10
4-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
4-Methyl-2-pentanone	10	U	100	10	5.0	ug/L		10/21/20 18:42	10
Acetone	20	U Q	200	20	7.0	ug/L		10/21/20 18:42	10
Acrolein	50	U	1000	50	30	ug/L		10/21/20 18:42	10
Acrylonitrile	10	U	200	10	3.0	ug/L		10/21/20 18:42	10
Benzene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Bromobenzene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
Bromochloromethane	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
Bromodichloromethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Bromoform	20	U	40	20	10	ug/L		10/21/20 18:42	10
Bromomethane	5.0	U	10	5.0	3.0	ug/L		10/21/20 18:42	10
Carbon disulfide	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
Carbon tetrachloride	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Chlorobenzene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Chloroethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Chloroform	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Chloromethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
cis-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
cis-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Dibromochloromethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Dibromomethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Dichlorodifluoromethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Ethylbenzene	8.0	U	10	8.0	4.0	ug/L		10/21/20 18:42	10
Hexachlorobutadiene	40	U	50	40	20	ug/L		10/21/20 18:42	10
Isopropylbenzene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
m&p-Xylene	20	U	50	20	10	ug/L		10/21/20 18:42	10
Methyl tertiary butyl ether	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Methylene Chloride	5.0	U	10	5.0	3.0	ug/L		10/21/20 18:42	10
Naphthalene	20	U	50	20	10	ug/L		10/21/20 18:42	10
n-Butylbenzene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
N-Propylbenzene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
o-Xylene	8.0	U	10	8.0	4.0	ug/L		10/21/20 18:42	10
p-Isopropyltoluene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
sec-Butylbenzene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
Styrene	5.0	U	50	5.0	2.0	ug/L		10/21/20 18:42	10
tert-Butylbenzene	10	U	50	10	3.0	ug/L		10/21/20 18:42	10
Tetrachloroethene	5.0	U Q	10	5.0	2.0	ug/L		10/21/20 18:42	10
Toluene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
trans-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW009-204

Lab Sample ID: 410-17030-9

Date Collected: 10/12/20 13:53

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Trichloroethene	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Trichlorofluoromethane	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Vinyl acetate	20	U	100	20	7.0	ug/L		10/21/20 18:42	10
Vinyl chloride	5.0	U	10	5.0	2.0	ug/L		10/21/20 18:42	10
Xylenes, Total	20	U	60	20	14	ug/L		10/21/20 18:42	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/21/20 18:42	10
4-Bromofluorobenzene (Surr)	99		85 - 114		10/21/20 18:42	10
Dibromofluoromethane (Surr)	98		80 - 119		10/21/20 18:42	10
Toluene-d8 (Surr)	99		89 - 112		10/21/20 18:42	10

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.017	J	0.029	0.019	0.0096	ug/L		10/20/20 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	141	M Q	46 - 136	10/16/20 23:44	10/20/20 19:20	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/16/20 23:44	10/20/20 19:20	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.9	D	2.5	2.0	1.3	mg/L		10/17/20 23:04	5
Chloride	190	D	20	15	10	mg/L		10/17/20 23:22	50
Sulfate	250	D	50	45	15	mg/L		10/17/20 23:22	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	180		0.20	0.15	0.096	mg/L		10/14/20 15:40	1
Magnesium	26		0.10	0.075	0.040	mg/L		10/14/20 15:40	1
Potassium	4.9		0.50	0.38	0.20	mg/L		10/14/20 15:40	1
Sodium	66		1.0	0.50	0.24	mg/L		10/14/20 15:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:23	1
Manganese	0.62		0.010	0.0052	0.0031	mg/L		10/20/20 08:23	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/15/20 20:46	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 20:46	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	160		8.0	6.0	8.0	mg/L		10/15/20 21:40	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 21:40	1
Total Alkalinity as CaCO3 to pH 4.5	160		8.0	6.0	8.0	mg/L		10/15/20 21:40	1
Nitrate Nitrite as N	4.8		1.0	0.90	0.40	mg/L		11/04/20 12:29	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW105-204

Lab Sample ID: 410-17030-10

Date Collected: 10/12/20 12:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/22/20 06:27	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 06:27	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 06:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 06:27	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:27	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 06:27	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:27	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 06:27	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 06:27	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/22/20 06:27	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/22/20 06:27	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/22/20 06:27	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/22/20 06:27	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/22/20 06:27	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:27	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 06:27	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/22/20 06:27	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW105-204

Lab Sample ID: 410-17030-10

Date Collected: 10/12/20 12:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 06:27	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:27	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 06:27	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 06:27	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:27	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 06:27	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/22/20 06:27	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:27	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/22/20 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/22/20 06:27	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/22/20 06:27	1
Dibromofluoromethane (Surr)	98		80 - 119		10/22/20 06:27	1
Toluene-d8 (Surr)	99		89 - 112		10/22/20 06:27	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	102		46 - 136	10/17/20 02:13	10/20/20 13:43	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/17/20 02:13	10/20/20 13:43	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 23:40	5
Chloride	48	D	20	15	10	mg/L		10/17/20 23:58	50
Sulfate	60	D	5.0	4.5	1.5	mg/L		10/17/20 23:40	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	57		0.20	0.15	0.096	mg/L		10/14/20 15:43	1
Magnesium	7.3		0.10	0.075	0.040	mg/L		10/14/20 15:43	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/14/20 15:43	1
Sodium	25		1.0	0.50	0.24	mg/L		10/14/20 15:43	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW105-204

Lab Sample ID: 410-17030-10

Date Collected: 10/12/20 12:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00076	J	0.0020	0.0016	0.00068	mg/L		10/15/20 20:44	1
Lead	0.00022	J	0.00050	0.00025	0.000071	mg/L		10/15/20 20:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	91		8.0	6.0	8.0	mg/L		10/15/20 21:46	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 21:46	1
Total Alkalinity as CaCO ₃ to pH 4.5	91		8.0	6.0	8.0	mg/L		10/15/20 21:46	1
Nitrate Nitrite as N	1.4		0.10	0.090	0.040	mg/L		11/04/20 12:30	1

Client Sample ID: GW107-204

Lab Sample ID: 410-17030-11

Date Collected: 10/12/20 12:50

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:49	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/22/20 06:49	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 06:49	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 06:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 06:49	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:49	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 06:49	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:49	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 06:49	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 06:49	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/22/20 06:49	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/22/20 06:49	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/22/20 06:49	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/22/20 06:49	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW107-204

Lab Sample ID: 410-17030-11

Date Collected: 10/12/20 12:50

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/22/20 06:49	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:49	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 06:49	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/22/20 06:49	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 06:49	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 06:49	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 06:49	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 06:49	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 06:49	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 06:49	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/22/20 06:49	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 06:49	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/22/20 06:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/22/20 06:49	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/22/20 06:49	1
Dibromofluoromethane (Surr)	99		80 - 119		10/22/20 06:49	1
Toluene-d8 (Surr)	99		89 - 112		10/22/20 06:49	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 14:00	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW107-204

Lab Sample ID: 410-17030-11

Date Collected: 10/12/20 12:50

Matrix: Water

Date Received: 10/13/20 10:44

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136	10/17/20 02:13	10/20/20 14:00	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/17/20 02:13	10/20/20 14:00	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 00:16	5
Chloride	37	D	20	15	10	mg/L		10/18/20 00:34	50
Sulfate	52	D	5.0	4.5	1.5	mg/L		10/18/20 00:16	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	49		0.20	0.15	0.096	mg/L		10/14/20 15:46	1
Magnesium	6.4		0.10	0.075	0.040	mg/L		10/14/20 15:46	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/14/20 15:46	1
Sodium	24		1.0	0.50	0.24	mg/L		10/14/20 15:46	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:33	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00073	J	0.0020	0.0016	0.00068	mg/L		10/15/20 13:22	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 13:22	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	95		8.0	6.0	8.0	mg/L		10/15/20 21:52	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 21:52	1
Total Alkalinity as CaCO ₃ to pH 4.5	95		8.0	6.0	8.0	mg/L		10/15/20 21:52	1
Nitrate Nitrite as N	0.83		0.10	0.090	0.040	mg/L		11/04/20 12:34	1

Client Sample ID: TB204-34

Lab Sample ID: 410-17030-12

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 02:25	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/22/20 02:25	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 02:25	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 02:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 02:25	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: TB204-34

Lab Sample ID: 410-17030-12

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 02:25	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 02:25	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 02:25	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 02:25	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 02:25	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/22/20 02:25	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/22/20 02:25	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/22/20 02:25	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/22/20 02:25	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/22/20 02:25	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 02:25	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 02:25	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/22/20 02:25	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 02:25	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 02:25	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 02:25	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 02:25	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 02:25	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 02:25	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: TB204-34

Lab Sample ID: 410-17030-12

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/22/20 02:25	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 02:25	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/22/20 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/22/20 02:25	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/22/20 02:25	1
Dibromofluoromethane (Surr)	97		80 - 119		10/22/20 02:25	1
Toluene-d8 (Surr)	99		89 - 112		10/22/20 02:25	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	93		46 - 136	10/17/20 02:13	10/20/20 14:51	1
1,1,2,2-Tetrachloroethane (2C)	96		46 - 136	10/17/20 02:13	10/20/20 14:51	1

Client Sample ID: GW026-204

Lab Sample ID: 410-17030-13

Date Collected: 10/12/20 08:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:11	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/22/20 07:11	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 07:11	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 07:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 07:11	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:11	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 07:11	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:11	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 07:11	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW026-204

Lab Sample ID: 410-17030-13

Date Collected: 10/12/20 08:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 07:11	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/22/20 07:11	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/22/20 07:11	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/22/20 07:11	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/22/20 07:11	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/22/20 07:11	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:11	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 07:11	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/22/20 07:11	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 07:11	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:11	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 07:11	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 07:11	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:11	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 07:11	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/22/20 07:11	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:11	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/22/20 07:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	98		81 - 118				10/22/20 07:11	1	
4-Bromofluorobenzene (Surr)	98		85 - 114				10/22/20 07:11	1	

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW026-204

Lab Sample ID: 410-17030-13

Date Collected: 10/12/20 08:30

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 119		10/22/20 07:11	1
Toluene-d8 (Surr)	99		89 - 112		10/22/20 07:11	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.029	0.019	0.0097	ug/L		10/20/20 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	0	J1 Q	46 - 136	10/17/20 02:13	10/20/20 15:08	1
1,1,2,2-Tetrachloroethane (2C)	91	J1 M	46 - 136	10/17/20 02:13	10/20/20 15:08	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 00:52	5
Chloride	53	D	20	15	10	mg/L		10/18/20 01:10	50
Sulfate	58	D	5.0	4.5	1.5	mg/L		10/18/20 00:52	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	55		0.20	0.15	0.096	mg/L		10/14/20 15:49	1
Magnesium	7.2		0.10	0.075	0.040	mg/L		10/14/20 15:49	1
Potassium	2.8		0.50	0.38	0.20	mg/L		10/14/20 15:49	1
Sodium	25		1.0	0.50	0.24	mg/L		10/14/20 15:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:30	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00073	J	0.0020	0.0016	0.00068	mg/L		10/15/20 13:24	1
Lead	0.00021	J	0.00050	0.00025	0.000071	mg/L		10/15/20 13:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	85		8.0	6.0	8.0	mg/L		10/15/20 21:59	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 21:59	1
Total Alkalinity as CaCO3 to pH 4.5	85		8.0	6.0	8.0	mg/L		10/15/20 21:59	1
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L		11/04/20 12:35	1

Client Sample ID: GW043-204

Lab Sample ID: 410-17030-14

Date Collected: 10/12/20 10:15

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:33	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW043-204

Lab Sample ID: 410-17030-14

Date Collected: 10/12/20 10:15

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/22/20 07:33	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 07:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 07:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 07:33	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:33	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 07:33	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:33	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 07:33	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 07:33	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/22/20 07:33	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/22/20 07:33	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/22/20 07:33	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/22/20 07:33	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/22/20 07:33	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:33	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 07:33	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/22/20 07:33	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 07:33	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 07:33	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 07:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW043-204

Lab Sample ID: 410-17030-14

Date Collected: 10/12/20 10:15

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 07:33	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 07:33	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 07:33	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/22/20 07:33	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 07:33	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/22/20 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/22/20 07:33	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/22/20 07:33	1
Dibromofluoromethane (Surr)	100		80 - 119		10/22/20 07:33	1
Toluene-d8 (Surr)	99		89 - 112		10/22/20 07:33	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/20/20 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136	10/17/20 02:13	10/20/20 15:25	1
1,1,2,2-Tetrachloroethane (2C)	100		46 - 136	10/17/20 02:13	10/20/20 15:25	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 02:41	5
Chloride	41	D	8.0	6.0	4.0	mg/L		10/25/20 03:37	20
Sulfate	65	D	5.0	4.5	1.5	mg/L		10/18/20 02:41	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	55		0.20	0.15	0.096	mg/L		10/14/20 15:21	1
Magnesium	7.6		0.10	0.075	0.040	mg/L		10/14/20 20:52	1
Potassium	2.8		0.50	0.38	0.20	mg/L		10/14/20 15:21	1
Sodium	26		1.0	0.50	0.24	mg/L		10/14/20 20:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U J1	0.21	0.10	0.041	mg/L		10/20/20 07:43	1
Manganese	0.0052	U J1	0.010	0.0052	0.0031	mg/L		10/20/20 07:43	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW043-204

Lab Sample ID: 410-17030-14

Date Collected: 10/12/20 10:15

Matrix: Water

Date Received: 10/13/20 10:44

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00092	J	0.0020	0.0016	0.00068	mg/L		10/26/20 12:17	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 12:17	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	96		8.0	6.0	8.0	mg/L		10/15/20 22:05	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 22:05	1
Total Alkalinity as CaCO ₃ to pH 4.5	96		8.0	6.0	8.0	mg/L		10/15/20 22:05	1
Nitrate Nitrite as N	0.94		0.10	0.090	0.040	mg/L		11/04/20 12:36	1

Client Sample ID: GW036-204

Lab Sample ID: 410-17030-15

Date Collected: 10/12/20 09:35

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 12:54	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/23/20 12:54	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 12:54	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 12:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 12:54	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 12:54	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 12:54	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 12:54	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/23/20 12:54	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		10/23/20 12:54	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/23/20 12:54	1
Acetone	0.95	J	20	2.0	0.70	ug/L		10/23/20 12:54	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/23/20 12:54	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/23/20 12:54	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/23/20 12:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW036-204

Lab Sample ID: 410-17030-15

Date Collected: 10/12/20 09:35

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 12:54	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/23/20 12:54	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/23/20 12:54	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 12:54	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 12:54	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 12:54	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/23/20 12:54	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 12:54	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 12:54	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/23/20 12:54	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 12:54	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/23/20 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/23/20 12:54	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/23/20 12:54	1
Dibromofluoromethane (Surr)	98		80 - 119		10/23/20 12:54	1
Toluene-d8 (Surr)	99		89 - 112		10/23/20 12:54	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.12		0.029	0.019	0.0095	ug/L		10/20/20 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	112		46 - 136	10/17/20 02:13	10/20/20 15:42	1
1,1,2,2-Tetrachloroethane (2C)	105		46 - 136	10/17/20 02:13	10/20/20 15:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW036-204

Lab Sample ID: 410-17030-15

Date Collected: 10/12/20 09:35

Matrix: Water

Date Received: 10/13/20 10:44

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 01:28	5
Chloride	16	D	2.0	1.5	1.0	mg/L		10/18/20 01:28	5
Sulfate	41	D	5.0	4.5	1.5	mg/L		10/18/20 01:28	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	42		0.20	0.15	0.096	mg/L		10/14/20 15:24	1
Magnesium	5.8		0.10	0.075	0.040	mg/L		10/14/20 20:55	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/14/20 15:24	1
Sodium	25		1.0	0.50	0.24	mg/L		10/14/20 20:55	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 08:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 08:36	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00074	J	0.0020	0.0016	0.00068	mg/L		10/26/20 12:11	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 12:11	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/16/20 04:13	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 04:13	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/16/20 04:13	1
Nitrate Nitrite as N	0.061	J	0.10	0.090	0.040	mg/L		11/04/20 12:39	1

Client Sample ID: TB204-32

Lab Sample ID: 410-17030-16

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 13:16	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/23/20 13:16	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 13:16	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 13:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 13:16	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 13:16	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 13:16	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: TB204-32

Lab Sample ID: 410-17030-16

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 13:16	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/23/20 13:16	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/23/20 13:16	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/23/20 13:16	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/23/20 13:16	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/23/20 13:16	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/23/20 13:16	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/23/20 13:16	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 13:16	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/23/20 13:16	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/23/20 13:16	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 13:16	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 13:16	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 13:16	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/23/20 13:16	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 13:16	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 13:16	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: TB204-32

Lab Sample ID: 410-17030-16

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/23/20 13:16	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 13:16	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/23/20 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/23/20 13:16	1
4-Bromofluorobenzene (Surr)	98		85 - 114		10/23/20 13:16	1
Dibromofluoromethane (Surr)	98		80 - 119		10/23/20 13:16	1
Toluene-d8 (Surr)	99		89 - 112		10/23/20 13:16	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/20/20 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/17/20 02:13	10/20/20 15:59	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/17/20 02:13	10/20/20 15:59	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(81-118)	(85-114)	(80-119)	(89-112)
410-17030-1	GW049-204	99	99	98	100
410-17030-2	GW050-204	118	96	103	103
410-17030-3	GW052-204	100	99	99	100
410-17030-4	TB204-33	118	96	104	102
410-17030-5	GW206-204	121 Q	96	105	102
410-17030-6	GW230-204	119 Q	95	103	103
410-17030-7	GW241-428-204	99	99	98	100
410-17030-8	TB204-35	119 Q	95	103	101
410-17030-9	GW009-204	100	99	98	99
410-17030-10	GW105-204	99	99	98	99
410-17030-11	GW107-204	101	99	99	99
410-17030-12	TB204-34	100	99	97	99
410-17030-13	GW026-204	98	98	98	99
410-17030-14	GW043-204	100	99	100	99
410-17030-15	GW036-204	100	99	98	99
410-17030-16	TB204-32	98	98	98	99
LCS 410-55702/5	Lab Control Sample	115	99	103 M	103
LCS 410-55702/6	Lab Control Sample	115	94	100	102
LCS 410-56668/6	Lab Control Sample	97	100	97	100
LCS 410-56668/9	Lab Control Sample	97	100	95	100
LCS 410-57112/5	Lab Control Sample	99	101	98	100
LCS 410-57112/7	Lab Control Sample	98	99	97	99
LCS 410-57707/6	Lab Control Sample	97	100	98	100
LCS 410-57707/9	Lab Control Sample	98	100	96	100
LCSD 410-56668/10	Lab Control Sample Dup	99	100	96	100
LCSD 410-56668/8	Lab Control Sample Dup	97	100	97	100
LCSD 410-57112/6	Lab Control Sample Dup	99	100	98	99
LCSD 410-57112/8	Lab Control Sample Dup	99	100	96	100
LCSD 410-57707/10	Lab Control Sample Dup	100	99	97	99
LCSD 410-57707/8	Lab Control Sample Dup	100	100	98	100
MB 410-55702/8	Method Blank	117	95	102	101
MB 410-56668/12	Method Blank	99	100	97	100
MB 410-57112/10	Method Blank	98	100	98	100
MB 410-57707/12	Method Blank	100	99	97	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-17030-1	GW049-204	108	98
410-17030-2	GW050-204	115	100
410-17030-3	GW052-204	115	97

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-17030-4	TB204-33	110	101
410-17030-5	GW206-204	111	100
410-17030-6	GW230-204	104	93
410-17030-7	GW241-428-204	133	115
410-17030-8	TB204-35	107	96
410-17030-9	GW009-204	141 M Q	99
410-17030-10	GW105-204	102	96
410-17030-11	GW107-204	100	96
410-17030-12	TB204-34	93	96
410-17030-13	GW026-204	0 J1 Q	91 J1 M
410-17030-14	GW043-204	100	100
410-17030-15	GW036-204	112	105
410-17030-16	TB204-32	97	99
LCS 410-55436/2-A	Lab Control Sample	95	88
LCS 410-55445/2-A	Lab Control Sample	92	94
LCSD 410-55436/3-A	Lab Control Sample Dup	94	89
LCSD 410-55445/3-A	Lab Control Sample Dup	92	92
MB 410-55436/1-A	Method Blank	100	90
MB 410-55445/1-A	Method Blank	89	92

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-55702/8

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/18/20 20:06	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:06	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:06	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 20:06	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/18/20 20:06	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/18/20 20:06	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/18/20 20:06	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/18/20 20:06	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/18/20 20:06	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/18/20 20:06	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:06	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/18/20 20:06	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-55702/8

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:06	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/18/20 20:06	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/18/20 20:06	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/18/20 20:06	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/18/20 20:06	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/18/20 20:06	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/18/20 20:06	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/18/20 20:06	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/18/20 20:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		81 - 118		10/18/20 20:06	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/18/20 20:06	1
Dibromofluoromethane (Surr)	102		80 - 119		10/18/20 20:06	1
Toluene-d8 (Surr)	101		89 - 112		10/18/20 20:06	1

Lab Sample ID: LCS 410-55702/5

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	78 - 124
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	20.7		ug/L		103	80 - 119
1,1-Dichloroethane	20.0	20.7		ug/L		103	77 - 125
1,1-Dichloroethene	20.0	20.1		ug/L		100	71 - 131
1,1-Dichloropropene	20.0	20.5		ug/L		102	79 - 125
1,2,3-Trichlorobenzene	20.0	18.7		ug/L		94	69 - 129
1,2,3-Trichloropropane	20.0	20.5		ug/L		103	73 - 122
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	69 - 130
1,2,4-Trimethylbenzene	20.0	20.5		ug/L		103	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	21.0		ug/L		105	62 - 128
1,2-Dibromoethane	20.0	19.5		ug/L		97	77 - 121
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	22.1		ug/L		111	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55702/5

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.6		ug/L		103	78 - 122
1,3,5-Trimethylbenzene	20.0	20.7		ug/L		103	75 - 124
1,3-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 119
1,3-Dichloropropane	20.0	19.8		ug/L		99	80 - 119
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	20.9		ug/L		104	60 - 139
2-Butanone	150	147		ug/L		98	56 - 143
2-Chlorotoluene	20.0	20.0		ug/L		100	79 - 122
2-Hexanone	100	97.4		ug/L		97	57 - 139
4-Chlorotoluene	20.0	20.0		ug/L		100	78 - 122
4-Methyl-2-pentanone	100	98.7		ug/L		99	67 - 130
Acetone	150	163		ug/L		109	39 - 160
Acrolein	150	139		ug/L		93	39 - 155
Acrylonitrile	100	97.9		ug/L		98	63 - 135
Benzene	20.0	20.1		ug/L		100	42 - 138
Bromobenzene	20.0	20.1		ug/L		100	80 - 120
Bromochloromethane	20.0	19.0		ug/L		95	78 - 123
Bromodichloromethane	20.0	21.0		ug/L		105	79 - 125
Bromoform	20.0	16.9		ug/L		84	66 - 130
Bromomethane	20.0	17.3		ug/L		87	53 - 141
Carbon disulfide	20.0	19.7		ug/L		99	64 - 133
Carbon tetrachloride	20.0	20.8		ug/L		104	72 - 136
Chlorobenzene	20.0	20.2		ug/L		101	82 - 118
Chloroethane	20.0	14.6		ug/L		73	60 - 138
Chloroform	20.0	21.1		ug/L		105	79 - 124
Chloromethane	20.0	13.3		ug/L		66	50 - 139
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	78 - 123
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	75 - 124
Dibromochloromethane	20.0	20.1		ug/L		100	74 - 126
Dibromomethane	20.0	20.2		ug/L		101	79 - 123
Dichlorodifluoromethane	20.0	15.9	M	ug/L		79	32 - 152
Ethylbenzene	20.0	20.4		ug/L		102	79 - 121
Hexachlorobutadiene	20.0	16.5		ug/L		83	66 - 134
Isopropylbenzene	20.0	20.3		ug/L		101	72 - 131
m&p-Xylene	40.0	41.8		ug/L		104	80 - 121
Methyl tertiary butyl ether	20.0	19.4		ug/L		97	71 - 124
Methylene Chloride	20.0	20.5		ug/L		103	74 - 124
Naphthalene	20.0	20.1		ug/L		100	61 - 128
n-Butylbenzene	20.0	20.6		ug/L		103	75 - 128
N-Propylbenzene	20.0	21.1		ug/L		105	76 - 126
o-Xylene	20.0	20.3		ug/L		101	78 - 122
p-Isopropyltoluene	20.0	20.8		ug/L		104	77 - 127
sec-Butylbenzene	20.0	20.7		ug/L		104	77 - 126
Styrene	20.0	20.4		ug/L		102	78 - 123
tert-Butylbenzene	20.0	19.7		ug/L		98	78 - 124
Tetrachloroethene	20.0	19.2		ug/L		96	74 - 129
Toluene	20.0	20.3		ug/L		102	80 - 121
trans-1,2-Dichloroethene	20.0	19.7		ug/L		98	75 - 124
trans-1,3-Dichloropropene	20.0	20.1		ug/L		101	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-55702/5

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.0		ug/L		100	79 - 123
Trichlorofluoromethane	20.0	17.9		ug/L		90	65 - 141
Vinyl chloride	20.0	15.3		ug/L		76	58 - 137
Xylenes, Total	60.0	62.1		ug/L		104	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	103	M	80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCS 410-55702/6

Matrix: Water

Analysis Batch: 55702

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	107		ug/L		107	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/21/20 13:12	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 13:12	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/21/20 13:12	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/21/20 13:12	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/21/20 13:12	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/21/20 13:12	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/21/20 13:12	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/21/20 13:12	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 13:12	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/21/20 13:12	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/21/20 13:12	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/21/20 13:12	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/21/20 13:12	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/21/20 13:12	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/21/20 13:12	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/21/20 13:12	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/21/20 13:12	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-56668/12

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/21/20 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/21/20 13:12	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/21/20 13:12	1
Dibromofluoromethane (Surr)	97		80 - 119		10/21/20 13:12	1
Toluene-d8 (Surr)	100		89 - 112		10/21/20 13:12	1

Lab Sample ID: LCS 410-56668/6

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.6		ug/L		98	78 - 124
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	74 - 131
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	71 - 121
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125
1,1-Dichloroethene	20.0	20.7		ug/L		103	71 - 131
1,1-Dichloropropene	20.0	20.2		ug/L		101	79 - 125
1,2,3-Trichlorobenzene	20.0	21.8		ug/L		109	69 - 129
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	20.0	22.3		ug/L		111	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/L		98	62 - 128
1,2-Dibromoethane	20.0	20.4		ug/L		102	77 - 121
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	20.7		ug/L		103	73 - 128
1,2-Dichloropropane	20.0	20.8		ug/L		104	78 - 122
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		112	75 - 124
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119
1,3-Dichloropropane	20.0	20.2		ug/L		101	80 - 119
1,4-Dichlorobenzene	20.0	20.9		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	22.1		ug/L		111	60 - 139
2-Butanone	150	135		ug/L		90	56 - 143
2-Chlorotoluene	20.0	21.0		ug/L		105	79 - 122
2-Hexanone	100	98.4		ug/L		98	57 - 139
4-Chlorotoluene	20.0	20.9		ug/L		105	78 - 122
4-Methyl-2-pentanone	100	98.2		ug/L		98	67 - 130
Acetone	150	129		ug/L		86	39 - 160
Acrolein	150	120		ug/L		80	39 - 155
Acrylonitrile	100	86.3		ug/L		86	63 - 135
Benzene	20.0	20.1		ug/L		100	42 - 138
Bromobenzene	20.0	20.8		ug/L		104	80 - 120
Bromochloromethane	20.0	19.1		ug/L		96	78 - 123
Bromodichloromethane	20.0	19.7		ug/L		99	79 - 125
Bromoform	20.0	15.4		ug/L		77	66 - 130
Bromomethane	20.0	17.6		ug/L		88	53 - 141

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-56668/6

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	15.7		ug/L		78	64 - 133
Carbon tetrachloride	20.0	18.8		ug/L		94	72 - 136
Chlorobenzene	20.0	20.2		ug/L		101	82 - 118
Chloroethane	20.0	17.7		ug/L		88	60 - 138
Chloroform	20.0	20.6		ug/L		103	79 - 124
Chloromethane	20.0	18.2		ug/L		91	50 - 139
cis-1,2-Dichloroethene	20.0	21.5		ug/L		108	78 - 123
cis-1,3-Dichloropropene	20.0	20.9		ug/L		104	75 - 124
Dibromochloromethane	20.0	18.2		ug/L		91	74 - 126
Dibromomethane	20.0	20.1		ug/L		101	79 - 123
Dichlorodifluoromethane	20.0	13.9		ug/L		69	32 - 152
Ethylbenzene	20.0	21.1		ug/L		106	79 - 121
Hexachlorobutadiene	20.0	20.7		ug/L		104	66 - 134
Isopropylbenzene	20.0	21.6		ug/L		108	72 - 131
m&p-Xylene	40.0	42.2		ug/L		106	80 - 121
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124
Methylene Chloride	20.0	20.3		ug/L		101	74 - 124
Naphthalene	20.0	22.1		ug/L		110	61 - 128
n-Butylbenzene	20.0	22.0		ug/L		110	75 - 128
N-Propylbenzene	20.0	22.4		ug/L		112	76 - 126
o-Xylene	20.0	21.2		ug/L		106	78 - 122
p-Isopropyltoluene	20.0	22.8		ug/L		114	77 - 127
sec-Butylbenzene	20.0	22.5		ug/L		112	77 - 126
Styrene	20.0	21.9		ug/L		110	78 - 123
tert-Butylbenzene	20.0	21.5		ug/L		107	78 - 124
Tetrachloroethene	20.0	17.8		ug/L		89	74 - 129
Toluene	20.0	20.4		ug/L		102	80 - 121
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	21.2		ug/L		106	73 - 127
Trichloroethene	20.0	20.2		ug/L		101	79 - 123
Trichlorofluoromethane	20.0	18.5		ug/L		93	65 - 141
Vinyl chloride	20.0	19.1		ug/L		95	58 - 137
Xylenes, Total	60.0	63.4		ug/L		106	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-56668/9

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	99.8		ug/L		100	54 - 146

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-56668/9

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCSD 410-56668/10

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	99.9		ug/L		100	54 - 146	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCSD 410-56668/8

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124	1	20
1,1,1-Trichloroethane	20.0	20.1		ug/L		101	74 - 131	0	20
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	71 - 121	3	20
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	80 - 119	2	20
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125	0	20
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131	1	20
1,1-Dichloropropene	20.0	20.1		ug/L		100	79 - 125	1	20
1,2,3-Trichlorobenzene	20.0	21.6		ug/L		108	69 - 129	1	20
1,2,3-Trichloropropane	20.0	19.9		ug/L		100	73 - 122	0	20
1,2,4-Trichlorobenzene	20.0	22.1		ug/L		110	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	22.2		ug/L		111	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.3		ug/L		96	62 - 128	2	20
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 121	2	20
1,2-Dichlorobenzene	20.0	20.9		ug/L		105	80 - 119	2	20
1,2-Dichloroethane	20.0	20.6		ug/L		103	73 - 128	0	20
1,2-Dichloropropane	20.0	20.7		ug/L		103	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	22.3		ug/L		111	75 - 124	0	20
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119	0	20
1,3-Dichloropropane	20.0	19.9		ug/L		99	80 - 119	2	20
1,4-Dichlorobenzene	20.0	20.9		ug/L		105	79 - 118	0	20
2,2-Dichloropropane	20.0	22.1		ug/L		111	60 - 139	0	20
2-Butanone	150	133		ug/L		89	56 - 143	2	20
2-Chlorotoluene	20.0	21.1		ug/L		105	79 - 122	0	20
2-Hexanone	100	97.5		ug/L		98	57 - 139	1	20
4-Chlorotoluene	20.0	21.0		ug/L		105	78 - 122	0	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-56668/8

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone	100	96.8		ug/L		97	67 - 130	1	20
Acetone	150	128		ug/L		86	39 - 160	0	20
Acrolein	150	119		ug/L		80	39 - 155	1	20
Acrylonitrile	100	85.5		ug/L		85	63 - 135	1	20
Benzene	20.0	20.0		ug/L		100	42 - 138	0	20
Bromobenzene	20.0	20.7		ug/L		104	80 - 120	0	20
Bromochloromethane	20.0	18.8		ug/L		94	78 - 123	2	20
Bromodichloromethane	20.0	19.8		ug/L		99	79 - 125	0	20
Bromoform	20.0	15.1		ug/L		75	66 - 130	2	20
Bromomethane	20.0	15.6		ug/L		78	53 - 141	12	20
Carbon disulfide	20.0	15.7		ug/L		79	64 - 133	0	20
Carbon tetrachloride	20.0	18.9		ug/L		95	72 - 136	0	20
Chlorobenzene	20.0	20.0		ug/L		100	82 - 118	1	20
Chloroethane	20.0	17.2		ug/L		86	60 - 138	3	20
Chloroform	20.0	20.4		ug/L		102	79 - 124	1	20
Chloromethane	20.0	17.4		ug/L		87	50 - 139	4	20
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	20.6		ug/L		103	75 - 124	1	20
Dibromochloromethane	20.0	18.0		ug/L		90	74 - 126	1	20
Dibromomethane	20.0	19.9		ug/L		100	79 - 123	1	20
Dichlorodifluoromethane	20.0	13.9		ug/L		69	32 - 152	0	20
Ethylbenzene	20.0	21.0		ug/L		105	79 - 121	1	20
Hexachlorobutadiene	20.0	20.7		ug/L		104	66 - 134	0	20
Isopropylbenzene	20.0	21.5		ug/L		108	72 - 131	1	20
m&p-Xylene	40.0	42.0		ug/L		105	80 - 121	1	20
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124	0	20
Methylene Chloride	20.0	19.9		ug/L		100	74 - 124	2	20
Naphthalene	20.0	22.0		ug/L		110	61 - 128	0	20
n-Butylbenzene	20.0	22.0		ug/L		110	75 - 128	0	20
N-Propylbenzene	20.0	22.3		ug/L		111	76 - 126	0	20
o-Xylene	20.0	21.2		ug/L		106	78 - 122	0	20
p-Isopropyltoluene	20.0	22.9		ug/L		114	77 - 127	0	20
sec-Butylbenzene	20.0	22.5		ug/L		112	77 - 126	0	20
Styrene	20.0	21.6		ug/L		108	78 - 123	2	20
tert-Butylbenzene	20.0	21.1		ug/L		106	78 - 124	2	20
Tetrachloroethene	20.0	18.6		ug/L		93	74 - 129	5	20
Toluene	20.0	20.4		ug/L		102	80 - 121	0	20
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124	0	20
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	73 - 127	1	20
Trichloroethene	20.0	20.1		ug/L		100	79 - 123	0	20
Trichlorofluoromethane	20.0	18.5		ug/L		92	65 - 141	0	20
Vinyl chloride	20.0	19.1		ug/L		96	58 - 137	0	20
Xylenes, Total	60.0	63.2		ug/L		105	79 - 121	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-56668/8

Matrix: Water

Analysis Batch: 56668

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: MB 410-57112/10

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/22/20 01:23	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 01:23	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 01:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 01:23	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 01:23	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 01:23	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/22/20 01:23	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/22/20 01:23	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/22/20 01:23	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/22/20 01:23	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/22/20 01:23	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/22/20 01:23	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-57112/10

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 01:23	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/22/20 01:23	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 01:23	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/22/20 01:23	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/22/20 01:23	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/22/20 01:23	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/22/20 01:23	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/22/20 01:23	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/22/20 01:23	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/22/20 01:23	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/22/20 01:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/22/20 01:23	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/22/20 01:23	1
Dibromofluoromethane (Surr)	98		80 - 119		10/22/20 01:23	1
Toluene-d8 (Surr)	100		89 - 112		10/22/20 01:23	1

Lab Sample ID: LCS 410-57112/5

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124
1,1,1-Trichloroethane	20.0	20.3		ug/L		102	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	71 - 121
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.3		ug/L		102	77 - 125
1,1-Dichloroethene	20.0	20.5		ug/L		103	71 - 131
1,1-Dichloropropene	20.0	20.1		ug/L		100	79 - 125
1,2,3-Trichlorobenzene	20.0	22.0		ug/L		110	69 - 129

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-57112/5

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	20.0	20.1		ug/L		101	73 - 122
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	20.0	22.2		ug/L		111	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.7		ug/L		99	62 - 128
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 121
1,2-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	20.9		ug/L		104	73 - 128
1,2-Dichloropropane	20.0	20.5		ug/L		103	78 - 122
1,3,5-Trimethylbenzene	20.0	22.2		ug/L		111	75 - 124
1,3-Dichlorobenzene	20.0	20.9		ug/L		105	80 - 119
1,3-Dichloropropane	20.0	19.9		ug/L		100	80 - 119
1,4-Dichlorobenzene	20.0	20.9		ug/L		105	79 - 118
2,2-Dichloropropane	20.0	22.2		ug/L		111	60 - 139
2-Butanone	150	166		ug/L		111	56 - 143
2-Chlorotoluene	20.0	20.8		ug/L		104	79 - 122
2-Hexanone	100	104		ug/L		104	57 - 139
4-Chlorotoluene	20.0	20.9		ug/L		105	78 - 122
4-Methyl-2-pentanone	100	98.2		ug/L		98	67 - 130
Acetone	150	214		ug/L		143	39 - 160
Acrolein	150	119		ug/L		79	39 - 155
Acrylonitrile	100	88.3		ug/L		88	63 - 135
Benzene	20.0	19.9		ug/L		99	42 - 138
Bromobenzene	20.0	20.5		ug/L		103	80 - 120
Bromochloromethane	20.0	19.7		ug/L		98	78 - 123
Bromodichloromethane	20.0	19.5		ug/L		98	79 - 125
Bromoform	20.0	14.2		ug/L		71	66 - 130
Bromomethane	20.0	16.9		ug/L		85	53 - 141
Carbon disulfide	20.0	15.9		ug/L		79	64 - 133
Carbon tetrachloride	20.0	19.2		ug/L		96	72 - 136
Chlorobenzene	20.0	20.0		ug/L		100	82 - 118
Chloroethane	20.0	18.8		ug/L		94	60 - 138
Chloroform	20.0	20.7		ug/L		104	79 - 124
Chloromethane	20.0	20.7		ug/L		104	50 - 139
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	78 - 123
cis-1,3-Dichloropropene	20.0	20.1		ug/L		101	75 - 124
Dibromochloromethane	20.0	17.3		ug/L		87	74 - 126
Dibromomethane	20.0	20.1		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	16.7		ug/L		83	32 - 152
Ethylbenzene	20.0	21.0		ug/L		105	79 - 121
Hexachlorobutadiene	20.0	20.9		ug/L		105	66 - 134
Isopropylbenzene	20.0	21.6		ug/L		108	72 - 131
m&p-Xylene	40.0	42.2		ug/L		105	80 - 121
Methyl tertiary butyl ether	20.0	20.1		ug/L		101	71 - 124
Methylene Chloride	20.0	20.2		ug/L		101	74 - 124
Naphthalene	20.0	22.6		ug/L		113	61 - 128
n-Butylbenzene	20.0	21.9		ug/L		109	75 - 128
N-Propylbenzene	20.0	22.1		ug/L		111	76 - 126
o-Xylene	20.0	21.2		ug/L		106	78 - 122
p-Isopropyltoluene	20.0	22.7		ug/L		113	77 - 127

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-57112/5

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	20.0	22.3		ug/L		111	77 - 126
Styrene	20.0	21.5		ug/L		108	78 - 123
tert-Butylbenzene	20.0	21.8		ug/L		109	78 - 124
Tetrachloroethene	20.0	20.3		ug/L		102	74 - 129
Toluene	20.0	20.2		ug/L		101	80 - 121
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	73 - 127
Trichloroethene	20.0	20.2		ug/L		101	79 - 123
Trichlorofluoromethane	20.0	19.8		ug/L		99	65 - 141
Vinyl chloride	20.0	21.3		ug/L		107	58 - 137
Xylenes, Total	60.0	63.4		ug/L		106	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	101		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-57112/7

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	106		ug/L		106	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-57112/6

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.3		ug/L		96	78 - 124	1	20
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	71 - 121	0	20
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	80 - 119	3	20
1,1-Dichloroethane	20.0	20.2		ug/L		101	77 - 125	1	20
1,1-Dichloroethene	20.0	20.3		ug/L		101	71 - 131	1	20
1,1-Dichloropropene	20.0	20.1		ug/L		100	79 - 125	0	20
1,2,3-Trichlorobenzene	20.0	21.7		ug/L		108	69 - 129	1	20
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	73 - 122	1	20
1,2,4-Trichlorobenzene	20.0	22.3		ug/L		111	69 - 130	0	20
1,2,4-Trimethylbenzene	20.0	22.0		ug/L		110	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.4		ug/L		97	62 - 128	2	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-57112/6

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121	1	20
1,2-Dichlorobenzene	20.0	20.9		ug/L		104	80 - 119	2	20
1,2-Dichloroethane	20.0	20.8		ug/L		104	73 - 128	0	20
1,2-Dichloropropane	20.0	20.7		ug/L		103	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	21.9		ug/L		110	75 - 124	1	20
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	80 - 119	1	20
1,3-Dichloropropane	20.0	19.9		ug/L		99	80 - 119	0	20
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	79 - 118	1	20
2,2-Dichloropropane	20.0	21.9		ug/L		110	60 - 139	1	20
2-Butanone	150	172		ug/L		114	56 - 143	3	20
2-Chlorotoluene	20.0	20.8		ug/L		104	79 - 122	0	20
2-Hexanone	100	105		ug/L		105	57 - 139	1	20
4-Chlorotoluene	20.0	20.6		ug/L		103	78 - 122	2	20
4-Methyl-2-pentanone	100	98.2		ug/L		98	67 - 130	0	20
Acetone	150	231		ug/L		154	39 - 160	7	20
Acrolein	150	125		ug/L		83	39 - 155	5	20
Acrylonitrile	100	87.9		ug/L		88	63 - 135	0	20
Benzene	20.0	19.8		ug/L		99	42 - 138	1	20
Bromobenzene	20.0	20.5		ug/L		103	80 - 120	0	20
Bromochloromethane	20.0	19.4		ug/L		97	78 - 123	2	20
Bromodichloromethane	20.0	19.6		ug/L		98	79 - 125	1	20
Bromoform	20.0	14.4		ug/L		72	66 - 130	1	20
Bromomethane	20.0	19.2		ug/L		96	53 - 141	12	20
Carbon disulfide	20.0	16.0		ug/L		80	64 - 133	1	20
Carbon tetrachloride	20.0	19.2		ug/L		96	72 - 136	0	20
Chlorobenzene	20.0	19.8		ug/L		99	82 - 118	1	20
Chloroethane	20.0	18.4		ug/L		92	60 - 138	2	20
Chloroform	20.0	20.7		ug/L		103	79 - 124	0	20
Chloromethane	20.0	19.8		ug/L		99	50 - 139	5	20
cis-1,2-Dichloroethene	20.0	21.8		ug/L		109	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	75 - 124	1	20
Dibromochloromethane	20.0	17.5		ug/L		87	74 - 126	1	20
Dibromomethane	20.0	20.1		ug/L		101	79 - 123	0	20
Dichlorodifluoromethane	20.0	16.0		ug/L		80	32 - 152	4	20
Ethylbenzene	20.0	20.6		ug/L		103	79 - 121	2	20
Hexachlorobutadiene	20.0	20.6		ug/L		103	66 - 134	2	20
Isopropylbenzene	20.0	21.3		ug/L		106	72 - 131	1	20
m&p-Xylene	40.0	41.3		ug/L		103	80 - 121	2	20
Methyl tertiary butyl ether	20.0	20.2		ug/L		101	71 - 124	1	20
Methylene Chloride	20.0	20.0		ug/L		100	74 - 124	1	20
Naphthalene	20.0	22.2		ug/L		111	61 - 128	2	20
n-Butylbenzene	20.0	21.6		ug/L		108	75 - 128	1	20
N-Propylbenzene	20.0	21.9		ug/L		110	76 - 126	1	20
o-Xylene	20.0	21.0		ug/L		105	78 - 122	1	20
p-Isopropyltoluene	20.0	22.4		ug/L		112	77 - 127	1	20
sec-Butylbenzene	20.0	22.0		ug/L		110	77 - 126	1	20
Styrene	20.0	21.3		ug/L		107	78 - 123	1	20
tert-Butylbenzene	20.0	21.5		ug/L		107	78 - 124	2	20
Tetrachloroethene	20.0	19.6		ug/L		98	74 - 129	3	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-57112/6

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	20.0	20.0		ug/L		100	80 - 121	1	20
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	75 - 124	1	20
trans-1,3-Dichloropropene	20.0	20.1		ug/L		101	73 - 127	1	20
Trichloroethene	20.0	20.0		ug/L		100	79 - 123	1	20
Trichlorofluoromethane	20.0	19.6		ug/L		98	65 - 141	1	20
Vinyl chloride	20.0	20.7		ug/L		103	58 - 137	3	20
Xylenes, Total	60.0	62.3		ug/L		104	79 - 121	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-57112/8

Matrix: Water

Analysis Batch: 57112

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	105		ug/L		105	54 - 146	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: MB 410-57707/12

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 11:51	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/23/20 11:51	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 11:51	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 11:51	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 11:51	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 11:51	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-57707/12

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 11:51	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 11:51	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/23/20 11:51	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/23/20 11:51	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/23/20 11:51	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/23/20 11:51	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/23/20 11:51	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/23/20 11:51	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/23/20 11:51	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 11:51	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/23/20 11:51	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/23/20 11:51	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 11:51	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/23/20 11:51	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/23/20 11:51	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/23/20 11:51	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/23/20 11:51	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/23/20 11:51	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-57707/12

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/23/20 11:51	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/23/20 11:51	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/23/20 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/23/20 11:51	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/23/20 11:51	1
Dibromofluoromethane (Surr)	97		80 - 119		10/23/20 11:51	1
Toluene-d8 (Surr)	99		89 - 112		10/23/20 11:51	1

Lab Sample ID: LCS 410-57707/6

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	74 - 131
1,1,2,2-Tetrachloroethane	20.0	21.0		ug/L		105	71 - 121
1,1,2-Trichloroethane	20.0	20.9		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.0		ug/L		100	77 - 125
1,1-Dichloroethene	20.0	20.3		ug/L		101	71 - 131
1,1-Dichloropropene	20.0	19.4		ug/L		97	79 - 125
1,2,3-Trichlorobenzene	20.0	21.0		ug/L		105	69 - 129
1,2,3-Trichloropropane	20.0	20.1		ug/L		101	73 - 122
1,2,4-Trichlorobenzene	20.0	21.5		ug/L		107	69 - 130
1,2,4-Trimethylbenzene	20.0	21.6		ug/L		108	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.9		ug/L		99	62 - 128
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 121
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	20.5		ug/L		102	73 - 128
1,2-Dichloropropane	20.0	20.4		ug/L		102	78 - 122
1,3,5-Trimethylbenzene	20.0	21.7		ug/L		109	75 - 124
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,3-Dichloropropane	20.0	20.0		ug/L		100	80 - 119
1,4-Dichlorobenzene	20.0	20.7		ug/L		103	79 - 118
2,2-Dichloropropane	20.0	21.8		ug/L		109	60 - 139
2-Butanone	150	139		ug/L		93	56 - 143
2-Chlorotoluene	20.0	20.5		ug/L		102	79 - 122
2-Hexanone	100	97.6		ug/L		98	57 - 139
4-Chlorotoluene	20.0	20.5		ug/L		103	78 - 122
4-Methyl-2-pentanone	100	97.8		ug/L		98	67 - 130
Acetone	150	126		ug/L		84	39 - 160
Acrolein	150	111		ug/L		74	39 - 155
Acrylonitrile	100	89.1		ug/L		89	63 - 135
Benzene	20.0	19.5		ug/L		98	42 - 138
Bromobenzene	20.0	20.5		ug/L		102	80 - 120
Bromochloromethane	20.0	19.4		ug/L		97	78 - 123

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-57707/6

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	20.0	19.9		ug/L		100	79 - 125
Bromoform	20.0	15.5		ug/L		78	66 - 130
Bromomethane	20.0	14.8		ug/L		74	53 - 141
Carbon disulfide	20.0	16.3		ug/L		82	64 - 133
Carbon tetrachloride	20.0	19.2		ug/L		96	72 - 136
Chlorobenzene	20.0	19.7		ug/L		99	82 - 118
Chloroethane	20.0	14.5		ug/L		73	60 - 138
Chloroform	20.0	20.3		ug/L		101	79 - 124
Chloromethane	20.0	18.1		ug/L		91	50 - 139
cis-1,2-Dichloroethene	20.0	21.3		ug/L		107	78 - 123
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	75 - 124
Dibromochloromethane	20.0	18.2		ug/L		91	74 - 126
Dibromomethane	20.0	20.0		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	15.1		ug/L		75	32 - 152
Ethylbenzene	20.0	20.4		ug/L		102	79 - 121
Hexachlorobutadiene	20.0	20.5		ug/L		102	66 - 134
Isopropylbenzene	20.0	20.9		ug/L		105	72 - 131
m&p-Xylene	40.0	41.3		ug/L		103	80 - 121
Methyl tertiary butyl ether	20.0	20.0		ug/L		100	71 - 124
Methylene Chloride	20.0	20.1		ug/L		101	74 - 124
Naphthalene	20.0	22.1		ug/L		110	61 - 128
n-Butylbenzene	20.0	21.5		ug/L		107	75 - 128
N-Propylbenzene	20.0	21.8		ug/L		109	76 - 126
o-Xylene	20.0	20.7		ug/L		103	78 - 122
p-Isopropyltoluene	20.0	22.1		ug/L		111	77 - 127
sec-Butylbenzene	20.0	21.9		ug/L		110	77 - 126
Styrene	20.0	21.2		ug/L		106	78 - 123
tert-Butylbenzene	20.0	21.4		ug/L		107	78 - 124
Tetrachloroethene	20.0	17.4		ug/L		87	74 - 129
Toluene	20.0	19.9		ug/L		100	80 - 121
trans-1,2-Dichloroethene	20.0	19.9		ug/L		100	75 - 124
trans-1,3-Dichloropropene	20.0	20.6		ug/L		103	73 - 127
Trichloroethene	20.0	19.4		ug/L		97	79 - 123
Trichlorofluoromethane	20.0	18.9		ug/L		94	65 - 141
Vinyl chloride	20.0	19.1		ug/L		95	58 - 137
Xylenes, Total	60.0	62.0		ug/L		103	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-57707/9

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	102		ug/L		102	54 - 146
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	98		81 - 118				
4-Bromofluorobenzene (Surr)	100		85 - 114				
Dibromofluoromethane (Surr)	96		80 - 119				
Toluene-d8 (Surr)	100		89 - 112				

Lab Sample ID: LCSD 410-57707/10

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	101		ug/L		101	54 - 146	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100		81 - 118						
4-Bromofluorobenzene (Surr)	99		85 - 114						
Dibromofluoromethane (Surr)	97		80 - 119						
Toluene-d8 (Surr)	99		89 - 112						

Lab Sample ID: LCSD 410-57707/8

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.2		ug/L		96	78 - 124	1	20
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	71 - 121	1	20
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	80 - 119	0	20
1,1-Dichloroethane	20.0	19.7		ug/L		98	77 - 125	1	20
1,1-Dichloroethene	20.0	19.9		ug/L		99	71 - 131	2	20
1,1-Dichloropropene	20.0	19.7		ug/L		99	79 - 125	1	20
1,2,3-Trichlorobenzene	20.0	21.0		ug/L		105	69 - 129	0	20
1,2,3-Trichloropropane	20.0	19.7		ug/L		98	73 - 122	2	20
1,2,4-Trichlorobenzene	20.0	21.4		ug/L		107	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.5		ug/L		97	62 - 128	2	20
1,2-Dibromoethane	20.0	20.2		ug/L		101	77 - 121	1	20
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 119	1	20
1,2-Dichloroethane	20.0	20.7		ug/L		103	73 - 128	1	20
1,2-Dichloropropane	20.0	20.2		ug/L		101	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	21.3		ug/L		106	75 - 124	2	20
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 119	1	20
1,3-Dichloropropane	20.0	20.0		ug/L		100	80 - 119	0	20
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	79 - 118	1	20
2,2-Dichloropropane	20.0	21.5		ug/L		107	60 - 139	1	20
2-Butanone	150	138		ug/L		92	56 - 143	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-57707/8

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	20.0		ug/L		100	79 - 122	2	20
2-Hexanone	100	97.8		ug/L		98	57 - 139	0	20
4-Chlorotoluene	20.0	20.1		ug/L		101	78 - 122	2	20
4-Methyl-2-pentanone	100	97.5		ug/L		97	67 - 130	0	20
Acetone	150	134		ug/L		90	39 - 160	6	20
Acrolein	150	117		ug/L		78	39 - 155	5	20
Acrylonitrile	100	88.7		ug/L		89	63 - 135	0	20
Benzene	20.0	19.4		ug/L		97	42 - 138	1	20
Bromobenzene	20.0	20.3		ug/L		101	80 - 120	1	20
Bromochloromethane	20.0	19.2		ug/L		96	78 - 123	1	20
Bromodichloromethane	20.0	19.5		ug/L		97	79 - 125	2	20
Bromoform	20.0	15.6		ug/L		78	66 - 130	1	20
Bromomethane	20.0	17.6		ug/L		88	53 - 141	17	20
Carbon disulfide	20.0	16.1		ug/L		81	64 - 133	1	20
Carbon tetrachloride	20.0	18.9		ug/L		95	72 - 136	2	20
Chlorobenzene	20.0	19.8		ug/L		99	82 - 118	0	20
Chloroethane	20.0	16.9		ug/L		84	60 - 138	15	20
Chloroform	20.0	20.2		ug/L		101	79 - 124	0	20
Chloromethane	20.0	17.9		ug/L		89	50 - 139	1	20
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	78 - 123	2	20
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	75 - 124	0	20
Dibromochloromethane	20.0	18.1		ug/L		90	74 - 126	1	20
Dibromomethane	20.0	20.1		ug/L		101	79 - 123	0	20
Dichlorodifluoromethane	20.0	14.4		ug/L		72	32 - 152	4	20
Ethylbenzene	20.0	20.4		ug/L		102	79 - 121	0	20
Hexachlorobutadiene	20.0	20.1		ug/L		100	66 - 134	2	20
Isopropylbenzene	20.0	20.8		ug/L		104	72 - 131	0	20
m&p-Xylene	40.0	40.9		ug/L		102	80 - 121	1	20
Methyl tertiary butyl ether	20.0	19.9		ug/L		100	71 - 124	0	20
Methylene Chloride	20.0	19.9		ug/L		99	74 - 124	1	20
Naphthalene	20.0	21.5		ug/L		108	61 - 128	2	20
n-Butylbenzene	20.0	20.9		ug/L		105	75 - 128	3	20
N-Propylbenzene	20.0	21.3		ug/L		107	76 - 126	2	20
o-Xylene	20.0	20.5		ug/L		102	78 - 122	1	20
p-Isopropyltoluene	20.0	21.6		ug/L		108	77 - 127	3	20
sec-Butylbenzene	20.0	21.5		ug/L		108	77 - 126	2	20
Styrene	20.0	21.0		ug/L		105	78 - 123	1	20
tert-Butylbenzene	20.0	20.4		ug/L		102	78 - 124	5	20
Tetrachloroethene	20.0	17.4		ug/L		87	74 - 129	0	20
Toluene	20.0	19.7		ug/L		99	80 - 121	1	20
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	75 - 124	0	20
trans-1,3-Dichloropropene	20.0	20.5		ug/L		103	73 - 127	1	20
Trichloroethene	20.0	19.4		ug/L		97	79 - 123	0	20
Trichlorofluoromethane	20.0	18.4		ug/L		92	65 - 141	3	20
Vinyl chloride	20.0	18.9		ug/L		95	58 - 137	1	20
Xylenes, Total	60.0	61.4		ug/L		102	79 - 121	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-57707/8

Matrix: Water

Analysis Batch: 57707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-55436/1-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55436

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac	
	Result	Qualifier								
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/20/20 20:47	1	
Surrogate	MB	MB	Limits					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier								
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136					10/16/20 23:44	10/20/20 20:47	1
1,1,2,2-Tetrachloroethane (2C)	90		46 - 136					10/16/20 23:44	10/20/20 20:47	1

Lab Sample ID: LCS 410-55436/2-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55436

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (1C)		0.128	0.0999		ug/L		78	60 - 140	
Surrogate	LCS	LCS							
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136						
	88		46 - 136						

Lab Sample ID: LCSD 410-55436/3-A

Matrix: Water

Analysis Batch: 56028

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55436

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)		0.128	0.111	M	ug/L		87	60 - 140	11	20
Surrogate	LCSD	LCSD								
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier	Limits							
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136							
	89		46 - 136							

Lab Sample ID: MB 410-55445/1-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55445

Analyte	MB	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U		0.030	0.020	0.010	ug/L		10/20/20 12:52	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 410-55445/1-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55445

Surrogate	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	89		46 - 136	10/17/20 02:13	10/20/20 12:52	1
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136	10/17/20 02:13	10/20/20 12:52	1

Lab Sample ID: LCS 410-55445/2-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.112		ug/L		88	60 - 140
Surrogate	LCS %Recovery	Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136				

Lab Sample ID: LCSD 410-55445/3-A

Matrix: Water

Analysis Batch: 56079

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.128	0.115		ug/L		90	60 - 140	2	20
Surrogate	LCSD %Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-55482/4

Matrix: Water

Analysis Batch: 55482

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/17/20 05:16	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/17/20 05:16	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/17/20 05:16	1

Lab Sample ID: LCS 410-55482/3

Matrix: Water

Analysis Batch: 55482

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.24		mg/L		97	90 - 110
Chloride	3.00	2.91		mg/L		97	90 - 110
Sulfate	7.50	7.42		mg/L		99	90 - 110

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-55489/4

Matrix: Water

Analysis Batch: 55489

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/17/20 19:28	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/17/20 19:28	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/17/20 19:28	1

Lab Sample ID: LCS 410-55489/3

Matrix: Water

Analysis Batch: 55489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	8.01		mg/L		107	90 - 110
Chloride	3.00	3.08		mg/L		103	90 - 110
Sulfate	7.50	7.70		mg/L		103	90 - 110

Lab Sample ID: MB 410-58122/4

Matrix: Water

Analysis Batch: 58122

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/25/20 02:11	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/25/20 02:11	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/25/20 02:11	1

Lab Sample ID: LCS 410-58122/3

Matrix: Water

Analysis Batch: 58122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.70		mg/L		103	90 - 110
Chloride	3.00	3.09		mg/L		103	90 - 110
Sulfate	7.50	7.80		mg/L		104	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-54257/1-A

Matrix: Water

Analysis Batch: 55915

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54257

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/19/20 11:22	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/19/20 11:22	1

Lab Sample ID: LCS 410-54257/2-A

Matrix: Water

Analysis Batch: 55915

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.356		mg/L		89	87 - 115
Manganese	0.0200	0.0218		mg/L		109	90 - 114

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-54263/1-A

Matrix: Water

Analysis Batch: 56334

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54263

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.0429	J	0.21	0.10	0.041	mg/L		10/20/20 07:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 07:36	1

Lab Sample ID: LCS 410-54263/2-A

Matrix: Water

Analysis Batch: 56334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.441		mg/L		110	87 - 115
Manganese	0.0200	0.0213		mg/L		107	90 - 114

Lab Sample ID: MB 410-54031/1-A

Matrix: Water

Analysis Batch: 54392

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 54031

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/14/20 14:20	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/14/20 14:20	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/14/20 14:20	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/14/20 14:20	1

Lab Sample ID: LCS 410-54031/2-A

Matrix: Water

Analysis Batch: 54392

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 54031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.411		mg/L		103	87 - 113
Potassium	5.60	5.70		mg/L		102	86 - 114

Lab Sample ID: LCS 410-54031/2-A

Matrix: Water

Analysis Batch: 54512

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 54031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	0.200	0.211		mg/L		106	85 - 113
Sodium	2.00	2.12		mg/L		106	87 - 115

Lab Sample ID: MB 410-54230/1-A

Matrix: Water

Analysis Batch: 55684

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 54230

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/18/20 13:58	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/18/20 13:58	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/18/20 13:58	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/18/20 13:58	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-54230/2-A

Matrix: Water

Analysis Batch: 55684

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 54230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.410		mg/L		102	87 - 113
Magnesium	0.200	0.210		mg/L		105	85 - 113
Potassium	5.60	5.96		mg/L		106	86 - 114
Sodium	2.00	2.02		mg/L		101	87 - 115

Lab Sample ID: 410-17030-14 MS

Matrix: Water

Analysis Batch: 56334

Client Sample ID: GW043-204

Prep Type: Dissolved

Prep Batch: 54263

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U J1	0.402	0.426		mg/L		106	87 - 115
Manganese	0.0052	U J1	0.0200	0.0207		mg/L		103	90 - 114

Lab Sample ID: 410-17030-14 MSD

Matrix: Water

Analysis Batch: 56334

Client Sample ID: GW043-204

Prep Type: Dissolved

Prep Batch: 54263

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.10	U J1	0.402	0.423		mg/L		105	87 - 115	1	20
Manganese	0.0052	U J1	0.0200	0.0206		mg/L		103	90 - 114	0	20

Lab Sample ID: 410-17030-14 DU

Matrix: Water

Analysis Batch: 56334

Client Sample ID: GW043-204

Prep Type: Dissolved

Prep Batch: 54263

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.10	U J1	0.10	U	mg/L		NC	20
Manganese	0.0052	U J1	0.0052	U	mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-53284/1-A

Matrix: Water

Analysis Batch: 54852

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53284

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/15/20 12:28	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 12:28	1

Lab Sample ID: LCS 410-53284/2-A

Matrix: Water

Analysis Batch: 54852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0605		mg/L		101	84 - 116
Lead	0.0300	0.0308		mg/L		103	88 - 115

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-53551/1-A

Matrix: Water

Analysis Batch: 55194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53551

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/15/20 19:50	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/15/20 19:50	1

Lab Sample ID: LCS 410-53551/2-A

Matrix: Water

Analysis Batch: 55194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0583		mg/L		97	84 - 116
Lead	0.0300	0.0300		mg/L		100	88 - 115

Lab Sample ID: MB 410-54038/1-A

Matrix: Water

Analysis Batch: 58551

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54038

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/26/20 11:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 11:55	1

Lab Sample ID: LCS 410-54038/2-A

Matrix: Water

Analysis Batch: 58551

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0657		mg/L		109	84 - 116
Lead	0.0300	0.0326		mg/L		109	88 - 115

Lab Sample ID: MB 410-54751/1-A

Matrix: Water

Analysis Batch: 56783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54751

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 18:57	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 18:57	1

Lab Sample ID: LCS 410-54751/2-A

Matrix: Water

Analysis Batch: 56783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0600		mg/L		100	84 - 116
Lead	0.0300	0.0301		mg/L		100	88 - 115

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-55319/33

Matrix: Water

Analysis Batch: 55319

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 20:17	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 20:17	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 20:17	1

Lab Sample ID: MB 410-55319/93

Matrix: Water

Analysis Batch: 55319

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 02:30	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 02:30	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 02:30	1

Lab Sample ID: LCS 410-55319/34

Matrix: Water

Analysis Batch: 55319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		97	82 - 106

Lab Sample ID: LCS 410-55319/94

Matrix: Water

Analysis Batch: 55319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	183		mg/L		97	82 - 106

Lab Sample ID: 410-17030-1 MS

Matrix: Water

Analysis Batch: 55319

Client Sample ID: GW049-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	71	J1	189	124	J1	mg/L		28	82 - 106

Lab Sample ID: 410-17030-1 DU

Matrix: Water

Analysis Batch: 55319

Client Sample ID: GW049-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	71	J1	71.1		mg/L		0.6	5

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 410-17030-2 DU

Matrix: Water

Analysis Batch: 55319

Client Sample ID: GW050-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	82		82.8		mg/L		0.9	5

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-62227/20

Matrix: Water

Analysis Batch: 62227

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/04/20 12:15	1

Lab Sample ID: LCS 410-62227/21

Matrix: Water

Analysis Batch: 62227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.50		mg/L		100	90 - 110

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

GC/MS VOA

Analysis Batch: 55702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-2	GW050-204	Total/NA	Water	8260C DOD	
410-17030-4	TB204-33	Total/NA	Water	8260C DOD	
410-17030-5	GW206-204	Total/NA	Water	8260C DOD	
410-17030-6	GW230-204	Total/NA	Water	8260C DOD	
410-17030-8	TB204-35	Total/NA	Water	8260C DOD	
MB 410-55702/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-55702/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-55702/6	Lab Control Sample	Total/NA	Water	8260C DOD	

Analysis Batch: 56668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total/NA	Water	8260C DOD	
410-17030-3	GW052-204	Total/NA	Water	8260C DOD	
410-17030-7	GW241-428-204	Total/NA	Water	8260C DOD	
410-17030-9	GW009-204	Total/NA	Water	8260C DOD	
MB 410-56668/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-56668/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-56668/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-56668/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-56668/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 57112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-10	GW105-204	Total/NA	Water	8260C DOD	
410-17030-11	GW107-204	Total/NA	Water	8260C DOD	
410-17030-12	TB204-34	Total/NA	Water	8260C DOD	
410-17030-13	GW026-204	Total/NA	Water	8260C DOD	
410-17030-14	GW043-204	Total/NA	Water	8260C DOD	
MB 410-57112/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-57112/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-57112/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-57112/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-57112/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 57707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-15	GW036-204	Total/NA	Water	8260C DOD	
410-17030-16	TB204-32	Total/NA	Water	8260C DOD	
MB 410-57707/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-57707/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-57707/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-57707/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-57707/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 55436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total/NA	Water	8011	
410-17030-2	GW050-204	Total/NA	Water	8011	
410-17030-3	GW052-204	Total/NA	Water	8011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

GC Semi VOA (Continued)

Prep Batch: 55436 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-4	TB204-33	Total/NA	Water	8011	
410-17030-5	GW206-204	Total/NA	Water	8011	
410-17030-6	GW230-204	Total/NA	Water	8011	
410-17030-7	GW241-428-204	Total/NA	Water	8011	
410-17030-8	TB204-35	Total/NA	Water	8011	
410-17030-9	GW009-204	Total/NA	Water	8011	
MB 410-55436/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55436/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55436/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 55445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-10	GW105-204	Total/NA	Water	8011	
410-17030-11	GW107-204	Total/NA	Water	8011	
410-17030-12	TB204-34	Total/NA	Water	8011	
410-17030-13	GW026-204	Total/NA	Water	8011	
410-17030-14	GW043-204	Total/NA	Water	8011	
410-17030-15	GW036-204	Total/NA	Water	8011	
410-17030-16	TB204-32	Total/NA	Water	8011	
MB 410-55445/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-55445/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-55445/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 56028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total/NA	Water	8011	55436
410-17030-2	GW050-204	Total/NA	Water	8011	55436
410-17030-3	GW052-204	Total/NA	Water	8011	55436
410-17030-4	TB204-33	Total/NA	Water	8011	55436
410-17030-5	GW206-204	Total/NA	Water	8011	55436
410-17030-6	GW230-204	Total/NA	Water	8011	55436
410-17030-7	GW241-428-204	Total/NA	Water	8011	55436
410-17030-8	TB204-35	Total/NA	Water	8011	55436
410-17030-9	GW009-204	Total/NA	Water	8011	55436
MB 410-55436/1-A	Method Blank	Total/NA	Water	8011	55436
LCS 410-55436/2-A	Lab Control Sample	Total/NA	Water	8011	55436
LCSD 410-55436/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55436

Analysis Batch: 56079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-10	GW105-204	Total/NA	Water	8011	55445
410-17030-11	GW107-204	Total/NA	Water	8011	55445
410-17030-12	TB204-34	Total/NA	Water	8011	55445
410-17030-13	GW026-204	Total/NA	Water	8011	55445
410-17030-14	GW043-204	Total/NA	Water	8011	55445
410-17030-15	GW036-204	Total/NA	Water	8011	55445
410-17030-16	TB204-32	Total/NA	Water	8011	55445
MB 410-55445/1-A	Method Blank	Total/NA	Water	8011	55445
LCS 410-55445/2-A	Lab Control Sample	Total/NA	Water	8011	55445
LCSD 410-55445/3-A	Lab Control Sample Dup	Total/NA	Water	8011	55445

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

HPLC/IC

Analysis Batch: 55482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-1	GW049-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-2	GW050-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-2	GW050-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-55482/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55482/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 55489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-3	GW052-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-3	GW052-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-5	GW206-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-5	GW206-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-6	GW230-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-7	GW241-428-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-7	GW241-428-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-9	GW009-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-9	GW009-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-10	GW105-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-10	GW105-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-11	GW107-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-11	GW107-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-13	GW026-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-13	GW026-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-14	GW043-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-15	GW036-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-55489/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55489/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 58122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-3	GW052-204	Total/NA	Water	EPA 300.0 R2.1	
410-17030-14	GW043-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-58122/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-58122/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 53284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-11	GW107-204	Total/NA	Water	3020A	
410-17030-13	GW026-204	Total/NA	Water	3020A	
MB 410-53284/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53284/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 53551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-9	GW009-204	Total/NA	Water	3020A	
410-17030-10	GW105-204	Total/NA	Water	3020A	
MB 410-53551/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53551/2-A	Lab Control Sample	Total/NA	Water	3020A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Metals

Prep Batch: 54031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-3	GW052-204	Total Recoverable	Water	3005A	
410-17030-5	GW206-204	Total Recoverable	Water	3005A	
410-17030-6	GW230-204	Total Recoverable	Water	3005A	
410-17030-7	GW241-428-204	Total Recoverable	Water	3005A	
410-17030-9	GW009-204	Total Recoverable	Water	3005A	
410-17030-10	GW105-204	Total Recoverable	Water	3005A	
410-17030-11	GW107-204	Total Recoverable	Water	3005A	
410-17030-13	GW026-204	Total Recoverable	Water	3005A	
410-17030-14	GW043-204	Total Recoverable	Water	3005A	
410-17030-15	GW036-204	Total Recoverable	Water	3005A	
MB 410-54031/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-54031/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 54038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total/NA	Water	3020A	
410-17030-2	GW050-204	Total/NA	Water	3020A	
410-17030-3	GW052-204	Total/NA	Water	3020A	
410-17030-5	GW206-204	Total/NA	Water	3020A	
410-17030-6	GW230-204	Total/NA	Water	3020A	
410-17030-14	GW043-204	Total/NA	Water	3020A	
410-17030-15	GW036-204	Total/NA	Water	3020A	
MB 410-54038/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-54038/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 54230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total Recoverable	Water	3005A	
410-17030-2	GW050-204	Total Recoverable	Water	3005A	
MB 410-54230/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-54230/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 54257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Dissolved	Water	Non-Digest Prep	
MB 410-54257/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54257/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 54263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-2	GW050-204	Dissolved	Water	Non-Digest Prep	
410-17030-3	GW052-204	Dissolved	Water	Non-Digest Prep	
410-17030-5	GW206-204	Dissolved	Water	Non-Digest Prep	
410-17030-6	GW230-204	Dissolved	Water	Non-Digest Prep	
410-17030-7	GW241-428-204	Dissolved	Water	Non-Digest Prep	
410-17030-9	GW009-204	Dissolved	Water	Non-Digest Prep	
410-17030-10	GW105-204	Dissolved	Water	Non-Digest Prep	
410-17030-11	GW107-204	Dissolved	Water	Non-Digest Prep	
410-17030-13	GW026-204	Dissolved	Water	Non-Digest Prep	
410-17030-14	GW043-204	Dissolved	Water	Non-Digest Prep	
410-17030-15	GW036-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Metals (Continued)

Prep Batch: 54263 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-54263/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54263/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-17030-14 MS	GW043-204	Dissolved	Water	Non-Digest Prep	
410-17030-14 MSD	GW043-204	Dissolved	Water	Non-Digest Prep	
410-17030-14 DU	GW043-204	Dissolved	Water	Non-Digest Prep	

Analysis Batch: 54392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-3	GW052-204	Total Recoverable	Water	6010C	54031
410-17030-5	GW206-204	Total Recoverable	Water	6010C	54031
410-17030-6	GW230-204	Total Recoverable	Water	6010C	54031
410-17030-7	GW241-428-204	Total Recoverable	Water	6010C	54031
410-17030-9	GW009-204	Total Recoverable	Water	6010C	54031
410-17030-10	GW105-204	Total Recoverable	Water	6010C	54031
410-17030-11	GW107-204	Total Recoverable	Water	6010C	54031
410-17030-13	GW026-204	Total Recoverable	Water	6010C	54031
410-17030-14	GW043-204	Total Recoverable	Water	6010C	54031
410-17030-15	GW036-204	Total Recoverable	Water	6010C	54031
MB 410-54031/1-A	Method Blank	Total Recoverable	Water	6010C	54031
LCS 410-54031/2-A	Lab Control Sample	Total Recoverable	Water	6010C	54031

Analysis Batch: 54512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-6	GW230-204	Total Recoverable	Water	6010C	54031
410-17030-14	GW043-204	Total Recoverable	Water	6010C	54031
410-17030-15	GW036-204	Total Recoverable	Water	6010C	54031
LCS 410-54031/2-A	Lab Control Sample	Total Recoverable	Water	6010C	54031

Prep Batch: 54751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-7	GW241-428-204	Total/NA	Water	3020A	
MB 410-54751/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-54751/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 54852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-11	GW107-204	Total/NA	Water	6020A	53284
410-17030-13	GW026-204	Total/NA	Water	6020A	53284
MB 410-53284/1-A	Method Blank	Total/NA	Water	6020A	53284
LCS 410-53284/2-A	Lab Control Sample	Total/NA	Water	6020A	53284

Analysis Batch: 55194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-9	GW009-204	Total/NA	Water	6020A	53551
410-17030-10	GW105-204	Total/NA	Water	6020A	53551
MB 410-53551/1-A	Method Blank	Total/NA	Water	6020A	53551
LCS 410-53551/2-A	Lab Control Sample	Total/NA	Water	6020A	53551

Analysis Batch: 55235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total Recoverable	Water	6010C	54230

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Metals (Continued)

Analysis Batch: 55235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-2	GW050-204	Total Recoverable	Water	6010C	54230

Analysis Batch: 55684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total Recoverable	Water	6010C	54230
410-17030-2	GW050-204	Total Recoverable	Water	6010C	54230
MB 410-54230/1-A	Method Blank	Total Recoverable	Water	6010C	54230
LCS 410-54230/2-A	Lab Control Sample	Total Recoverable	Water	6010C	54230

Analysis Batch: 55915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Dissolved	Water	6010C	54257
MB 410-54257/1-A	Method Blank	Total/NA	Water	6010C	54257
LCS 410-54257/2-A	Lab Control Sample	Total/NA	Water	6010C	54257

Analysis Batch: 56334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-2	GW050-204	Dissolved	Water	6010C	54263
410-17030-3	GW052-204	Dissolved	Water	6010C	54263
410-17030-5	GW206-204	Dissolved	Water	6010C	54263
410-17030-6	GW230-204	Dissolved	Water	6010C	54263
410-17030-7	GW241-428-204	Dissolved	Water	6010C	54263
410-17030-9	GW009-204	Dissolved	Water	6010C	54263
410-17030-10	GW105-204	Dissolved	Water	6010C	54263
410-17030-11	GW107-204	Dissolved	Water	6010C	54263
410-17030-13	GW026-204	Dissolved	Water	6010C	54263
410-17030-14	GW043-204	Dissolved	Water	6010C	54263
410-17030-15	GW036-204	Dissolved	Water	6010C	54263
MB 410-54263/1-A	Method Blank	Total/NA	Water	6010C	54263
LCS 410-54263/2-A	Lab Control Sample	Total/NA	Water	6010C	54263
410-17030-14 MS	GW043-204	Dissolved	Water	6010C	54263
410-17030-14 MSD	GW043-204	Dissolved	Water	6010C	54263
410-17030-14 DU	GW043-204	Dissolved	Water	6010C	54263

Analysis Batch: 56783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-7	GW241-428-204	Total/NA	Water	6020A	54751
MB 410-54751/1-A	Method Blank	Total/NA	Water	6020A	54751
LCS 410-54751/2-A	Lab Control Sample	Total/NA	Water	6020A	54751

Analysis Batch: 58551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total/NA	Water	6020A	54038
410-17030-2	GW050-204	Total/NA	Water	6020A	54038
410-17030-3	GW052-204	Total/NA	Water	6020A	54038
410-17030-5	GW206-204	Total/NA	Water	6020A	54038
410-17030-6	GW230-204	Total/NA	Water	6020A	54038
410-17030-14	GW043-204	Total/NA	Water	6020A	54038
410-17030-15	GW036-204	Total/NA	Water	6020A	54038
MB 410-54038/1-A	Method Blank	Total/NA	Water	6020A	54038
LCS 410-54038/2-A	Lab Control Sample	Total/NA	Water	6020A	54038

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

General Chemistry

Analysis Batch: 55319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total/NA	Water	2320B-2011	
410-17030-2	GW050-204	Total/NA	Water	2320B-2011	
410-17030-3	GW052-204	Total/NA	Water	2320B-2011	
410-17030-5	GW206-204	Total/NA	Water	2320B-2011	
410-17030-6	GW230-204	Total/NA	Water	2320B-2011	
410-17030-7	GW241-428-204	Total/NA	Water	2320B-2011	
410-17030-9	GW009-204	Total/NA	Water	2320B-2011	
410-17030-10	GW105-204	Total/NA	Water	2320B-2011	
410-17030-11	GW107-204	Total/NA	Water	2320B-2011	
410-17030-13	GW026-204	Total/NA	Water	2320B-2011	
410-17030-14	GW043-204	Total/NA	Water	2320B-2011	
410-17030-15	GW036-204	Total/NA	Water	2320B-2011	
MB 410-55319/33	Method Blank	Total/NA	Water	2320B-2011	
MB 410-55319/93	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-55319/34	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-55319/94	Lab Control Sample	Total/NA	Water	2320B-2011	
410-17030-1 MS	GW049-204	Total/NA	Water	2320B-2011	
410-17030-1 DU	GW049-204	Total/NA	Water	2320B-2011	
410-17030-2 DU	GW050-204	Total/NA	Water	2320B-2011	

Analysis Batch: 62227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17030-1	GW049-204	Total/NA	Water	353.2	
410-17030-2	GW050-204	Total/NA	Water	353.2	
410-17030-3	GW052-204	Total/NA	Water	353.2	
410-17030-5	GW206-204	Total/NA	Water	353.2	
410-17030-6	GW230-204	Total/NA	Water	353.2	
410-17030-7	GW241-428-204	Total/NA	Water	353.2	
410-17030-9	GW009-204	Total/NA	Water	353.2	
410-17030-10	GW105-204	Total/NA	Water	353.2	
410-17030-11	GW107-204	Total/NA	Water	353.2	
410-17030-13	GW026-204	Total/NA	Water	353.2	
410-17030-14	GW043-204	Total/NA	Water	353.2	
410-17030-15	GW036-204	Total/NA	Water	353.2	
MB 410-62227/20	Method Blank	Total/NA	Water	353.2	
LCS 410-62227/21	Lab Control Sample	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW049-204

Date Collected: 10/12/20 10:45

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 17:35	NSK7	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 16:32	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55482	10/17/20 14:37	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55482	10/17/20 14:54	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54257	10/14/20 10:51	UJL8	ELLE
Dissolved	Analysis	6010C		1	55915	10/19/20 12:58	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/14/20 10:12	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 09:40	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/14/20 10:12	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 14:43	UPJE	ELLE
Total/NA	Prep	3020A			54038	10/14/20 03:21	UJL8	ELLE
Total/NA	Analysis	6020A		1	58551	10/26/20 12:19	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 20:31	JB	ELLE
Total/NA	Analysis	353.2		5	62227	11/04/20 12:20	KGQ6	ELLE

Client Sample ID: GW050-204

Date Collected: 10/12/20 11:15

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/19/20 03:14	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 16:49	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55482	10/17/20 15:45	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55482	10/17/20 16:02	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:01	ULJC	ELLE
Total Recoverable	Prep	3005A			54230	10/14/20 10:12	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 09:44	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/14/20 10:12	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 14:46	UPJE	ELLE
Total/NA	Prep	3020A			54038	10/14/20 03:21	UJL8	ELLE
Total/NA	Analysis	6020A		1	58551	10/26/20 12:21	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 20:51	JB	ELLE
Total/NA	Analysis	353.2		2	62227	11/04/20 12:23	KGQ6	ELLE

Client Sample ID: GW052-204

Date Collected: 10/12/20 11:45

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 17:57	NSK7	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW052-204

Lab Sample ID: 410-17030-3

Date Collected: 10/12/20 11:45

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 17:39	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 05:59	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55489	10/18/20 06:17	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	58122	10/25/20 03:20	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:14	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:55	UCIG	ELLE
Total/NA	Prep	3020A			54038	10/14/20 03:21	UJL8	ELLE
Total/NA	Analysis	6020A		1	58551	10/26/20 12:22	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 21:04	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:24	KGQ6	ELLE

Client Sample ID: TB204-33

Lab Sample ID: 410-17030-4

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/18/20 21:45	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 17:56	AC3T	ELLE

Client Sample ID: GW206-204

Lab Sample ID: 410-17030-5

Date Collected: 10/12/20 13:35

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/19/20 03:58	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 18:13	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/17/20 20:40	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55489	10/17/20 20:58	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:04	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:52	UCIG	ELLE
Total/NA	Prep	3020A			54038	10/14/20 03:21	UJL8	ELLE
Total/NA	Analysis	6020A		1	58551	10/26/20 12:24	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 21:11	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:25	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW230-204

Lab Sample ID: 410-17030-6

Date Collected: 10/12/20 09:00

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/19/20 04:20	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 18:29	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/17/20 21:16	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:17	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54512	10/14/20 20:58	UCIG	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:27	UCIG	ELLE
Total/NA	Prep	3020A			54038	10/14/20 03:21	UJL8	ELLE
Total/NA	Analysis	6020A		1	58551	10/26/20 12:26	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 21:17	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:27	KGQ6	ELLE

Client Sample ID: GW241-428-204

Lab Sample ID: 410-17030-7

Date Collected: 10/12/20 14:30

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	56668	10/21/20 18:20	NSK7	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 18:46	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/17/20 21:52	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55489	10/17/20 22:46	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:20	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:37	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:24	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 21:33	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:28	KGQ6	ELLE

Client Sample ID: TB204-35

Lab Sample ID: 410-17030-8

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	55702	10/18/20 22:07	TQ4J	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 19:03	AC3T	ELLE

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Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW009-204

Date Collected: 10/12/20 13:53

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		10	56668	10/21/20 18:42	NSK7	ELLE
Total/NA	Prep	8011			55436	10/16/20 23:44	UKQ8	ELLE
Total/NA	Analysis	8011		1	56028	10/20/20 19:20	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/17/20 23:04	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55489	10/17/20 23:22	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:23	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:40	UCIG	ELLE
Total/NA	Prep	3020A			53551	10/13/20 07:04	UJL8	ELLE
Total/NA	Analysis	6020A		1	55194	10/15/20 20:46	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 21:40	JB	ELLE
Total/NA	Analysis	353.2		10	62227	11/04/20 12:29	KGQ6	ELLE

Client Sample ID: GW105-204

Date Collected: 10/12/20 12:30

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	57112	10/22/20 06:27	TQ4J	ELLE
Total/NA	Prep	8011			55445	10/17/20 02:13	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 13:43	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/17/20 23:40	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55489	10/17/20 23:58	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:27	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:43	UCIG	ELLE
Total/NA	Prep	3020A			53551	10/13/20 07:04	UJL8	ELLE
Total/NA	Analysis	6020A		1	55194	10/15/20 20:44	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 21:46	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:30	KGQ6	ELLE

Client Sample ID: GW107-204

Date Collected: 10/12/20 12:50

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	57112	10/22/20 06:49	TQ4J	ELLE
Total/NA	Prep	8011			55445	10/17/20 02:13	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 14:00	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 00:16	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55489	10/18/20 00:34	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW107-204

Date Collected: 10/12/20 12:50

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:33	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:46	UCIG	ELLE
Total/NA	Prep	3020A			53284	10/15/20 02:02	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 13:22	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 21:52	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:34	KGQ6	ELLE

Client Sample ID: TB204-34

Date Collected: 10/12/20 12:00

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	57112	10/22/20 02:25	TQ4J	ELLE
Total/NA	Prep	8011			55445	10/17/20 02:13	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 14:51	AC3T	ELLE

Client Sample ID: GW026-204

Date Collected: 10/12/20 08:30

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	57112	10/22/20 07:11	TQ4J	ELLE
Total/NA	Prep	8011			55445	10/17/20 02:13	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 15:08	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 00:52	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55489	10/18/20 01:10	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:30	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:49	UCIG	ELLE
Total/NA	Prep	3020A			53284	10/12/20 10:46	UJL8	ELLE
Total/NA	Analysis	6020A		1	54852	10/15/20 13:24	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 21:59	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:35	KGQ6	ELLE

Client Sample ID: GW043-204

Date Collected: 10/12/20 10:15

Date Received: 10/13/20 10:44

Lab Sample ID: 410-17030-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	57112	10/22/20 07:33	TQ4J	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Client Sample ID: GW043-204

Lab Sample ID: 410-17030-14

Date Collected: 10/12/20 10:15

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			55445	10/17/20 02:13	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 15:25	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 02:41	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	58122	10/25/20 03:37	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 07:43	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54512	10/14/20 20:52	UCIG	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:21	UCIG	ELLE
Total/NA	Prep	3020A			54038	10/14/20 03:21	UJL8	ELLE
Total/NA	Analysis	6020A		1	58551	10/26/20 12:17	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/15/20 22:05	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:36	KGQ6	ELLE

Client Sample ID: GW036-204

Lab Sample ID: 410-17030-15

Date Collected: 10/12/20 09:35

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	57707	10/23/20 12:54	K4WN	ELLE
Total/NA	Prep	8011			55445	10/17/20 02:13	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 15:42	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 01:28	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54263	10/14/20 11:02	UJL8	ELLE
Dissolved	Analysis	6010C		1	56334	10/20/20 08:36	ULJC	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54512	10/14/20 20:55	UCIG	ELLE
Total Recoverable	Prep	3005A			54031	10/14/20 02:46	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	54392	10/14/20 15:24	UCIG	ELLE
Total/NA	Prep	3020A			54038	10/14/20 03:21	UJL8	ELLE
Total/NA	Analysis	6020A		1	58551	10/26/20 12:11	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 04:13	JB	ELLE
Total/NA	Analysis	353.2		1	62227	11/04/20 12:39	KGQ6	ELLE

Client Sample ID: TB204-32

Lab Sample ID: 410-17030-16

Date Collected: 10/12/20 12:00

Matrix: Water

Date Received: 10/13/20 10:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	57707	10/23/20 13:16	K4WN	ELLE
Total/NA	Prep	8011			55445	10/17/20 02:13	UKQ8	ELLE
Total/NA	Analysis	8011		1	56079	10/20/20 15:59	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17030-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-17030-1	GW049-204	Water	10/12/20 10:45	10/13/20 10:44	
410-17030-2	GW050-204	Water	10/12/20 11:15	10/13/20 10:44	
410-17030-3	GW052-204	Water	10/12/20 11:45	10/13/20 10:44	
410-17030-4	TB204-33	Water	10/12/20 12:00	10/13/20 10:44	
410-17030-5	GW206-204	Water	10/12/20 13:35	10/13/20 10:44	
410-17030-6	GW230-204	Water	10/12/20 09:00	10/13/20 10:44	
410-17030-7	GW241-428-204	Water	10/12/20 14:30	10/13/20 10:44	
410-17030-8	TB204-35	Water	10/12/20 12:00	10/13/20 10:44	
410-17030-9	GW009-204	Water	10/12/20 13:53	10/13/20 10:44	
410-17030-10	GW105-204	Water	10/12/20 12:30	10/13/20 10:44	
410-17030-11	GW107-204	Water	10/12/20 12:50	10/13/20 10:44	
410-17030-12	TB204-34	Water	10/12/20 12:00	10/13/20 10:44	
410-17030-13	GW026-204	Water	10/12/20 08:30	10/13/20 10:44	
410-17030-14	GW043-204	Water	10/12/20 10:15	10/13/20 10:44	
410-17030-15	GW036-204	Water	10/12/20 09:35	10/13/20 10:44	
410-17030-16	TB204-32	Water	10/12/20 12:00	10/13/20 10:44	

Eurofins Lancaster Laboratories Env, LLC



410-17030 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-049-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Comments	
1	GW049-204	10-12-2020	1045	10	3	—	2	1	1*	1	1	1			
2															
3															
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6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i> RELINQUISHED BY: <i>Gabriel Begaye</i> <i>[Signature]</i> Printed Name and Signature: <i>Gabriel Begaye</i> Printed Name and Signature: <i>[Signature]</i> Printed Name and Signature: <i>[Signature]</i> COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5519 RECEIVED BY: <i>Nicole Reiff</i> <i>[Signature]</i> Printed Name and Signature: <i>Nicole Reiff</i> Printed Name and Signature: <i>[Signature]</i> Printed Name and Signature: <i>[Signature]</i> TB204-33 10/13/20 1040 KAM															

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-050-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	Mercury (RSK-175)	Comments	
1	GW050-204	10-12-2020	1115	10	3	—	2	1	1*	1	1	1					
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
TB204- 33																	
SAMPLER(S): <i>GaBeyne</i>				COURIER AND SHIPPING NUMBER: FedEx <i>8155 2826 5519</i>													
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME			
Printed Name and Signature: <i>GaBeyne</i>				10-12-2020		1630		Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature:									
Printed Name and Signature:								Printed Name and Signature: <i>Nicole Reiff</i>				10/13/20		1040			

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-052-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	
1	GW052-204	10-12-2020	1145	10	3	—	2	1	1*	1	1	1				
2																
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **G. Begay**

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5519**

TB204- **33**

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Gahresten Begay	10-12-2020	1030			
			Nicole Reiff	10/13/20	1040

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-33

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

COC NUMBER
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204-33	10/12/2020	1200	4	2	—	2									
2																
3																
4																
5																

Associated with:
GW049-204
GW050-204
GW052-204

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5519

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: J Livingston <i>[Signature]</i>	10/12/2020	1630	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: Nicole Ruff <i>[Signature]</i>	10/13/20	1040

CCM

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-206-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8250C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM/2320B)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW206-204	10-12-2020	1335	10	3	—	2	1	1*	1	1	1			
2															
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5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
note: 150ml (Alkalinity), 190ml (Total Metals)															
SAMPLER(S): G-Beyge				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5541 TB204-35											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: Gabe Borge				10-12-2020	1630	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Wesley Miller				10/13/20	1412				

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 504-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-230-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR: **2020**
QUARTER: **4 (Oct-Dec)**

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: **21295**

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of bottles	VOCs (8260C)	BTEX (8260C)	EDR (8011)	EDR (8260C)	BTEXN (8260C)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	
1	GW230-204	10-12-2020	0900	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *Gabejane*

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5541**

TB204- **35**

RELINQUISHED BY: DATE TIME RECEIVED BY: DATE TIME

Printed Name and Signature: *Gabejane* *Wesley Miller* 10/12/2020 1630

Printed Name and Signature: *Wesley Miller* 10/13/2020 1442

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400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-241-428-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)		
1	GW241-428-204	10-12-2020	1430	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **G. Begaye**

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5541**

TB204-35

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

Printed Name and Signature: **Galveston Begaye** 10-12-2020 1630

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature: **Wesley Miller** 10/13/2020 1630

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400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER **35**
COC-TB204-36 AB

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (2260C)	BTEX (2260C)	BTEXN (2260C)	EDB (2260C)	Total As, Pb, Cd, K, Na, Mg (2020A/61010C)	Dissolved Fe, Mn (61010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)		(SM2320B)	
1	TB204- 35 36 AB	10/12/2020	1200	4	2			2								
2																
3																
4																
5	JRL															

Associated with:
GW206-204
GW230-204
GW241-428-204

SAMPLER(S): **J Livingston**

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5541**

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: J Livingston	10/12/2020	1630	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: Wesley Miller	10/13/2020	1442

qmm

EA		225 Schilling Circle Suite 450 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-009-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5423208)	Carbon Dioxide (RSK-175)	Comments	
1	GW009-204	10-12-2020	1353	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk DATE: 10-12-2020 TIME: 1630 COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5520 RECEIVED BY: Nicole Ruff DATE: 10/13/20 TIME: 1044 TB204- 34															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-105-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR: **2020**

QUARTER: **4 (Oct-Dec)**

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: **21295**

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS								
				Total Number of bottles	VOCs	BTEX	(B260C)	BTEXN	(B260C)	EDB	(B011)	Total (As, Pb, Cd, Cr, Ni, Mn)	Dissolved Fe, Mn	(B010C)	Chloride, bromide, sulfate		(3000)	Nitrate-Nitrite	(3532)	(Total, Carbonate, and Bicarbonate)	Alkalinity	(SM2320B)	Carbon Dioxide	(RSK-175)
1	GW105-204	10-12-2020	1230	10	3	—	2	1	1*	1	1	1												
2																								
3																								
4																								
5																								
6																								

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Beggs*

RELINQUISHED BY: *G. Beggs* *J. Base* 10-12-2020 1630

Printed Name and Signature: _____

Printed Name and Signature: _____

Printed Name and Signature: _____

Printed Name and Signature: _____

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5520**

RECEIVED BY: *Nicole Ruff* 10/13/20 1044

Printed Name and Signature: _____

Printed Name and Signature: _____

Printed Name and Signature: _____

Printed Name and Signature: _____

qcm

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-107-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tere Lemond: tlemond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)		
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (B260C)	BTEX (B260C)	EDB (B011)	Total (As, Pb, Ca, K, Na, Mg) (B020A/B010C)	Dissolved Fe, Mn (B010C)	Chloride, bromide, sulfate (B010C)	Nitrate-Nitrite (B33.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM4230B)	Carbon Dioxide (RSK-175)	Comments
1	GW107-204	10-12-2020	1250	10	3	—	2	1	1*	1	1	1		 10-12-2020
2														
3														
4														
5														
6														
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered														
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5520										
RELINQUISHED BY:				RECEIVED BY:										
Printed Name and Signature: Galverton Begaye				Printed Name and Signature:										
DATE: 10-12-2020 TIME: 1630				DATE: TIME:										
Printed Name and Signature:				Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature: WR 10/13/20 1044										

CCM

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-34	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2250C)	BTEX (2250C)	EDB (2250C)	Total As, Pb, Cd, Cr, Ni, Mn (6020A/610C)	Dissolved Fe, Mn (6020A/610C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS		
1	TB204-34	10/12/2020	1200	4	2		2						JRL		
2															
3															
4															
5															
Associated with: GW105-204 GW107-204 GW009-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2828 5520											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/12/2020	1630	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Ruff				10/13/20	1044				

gem

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-026-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

YEAR: 2020

QUARTER: 4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS				
				Total Number of Bottles	VOCs	BTEX	BTEXN	EDB	(B011)	(B260C)	(B260C)	Total (As, Pb, Cd, Na, Mg)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate		Nitrate-Nitrite	(3532)	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)
1	GW026-204	10-12-2020	0830	10	3				2	1	1*	1	1	1						
2																				
3																				
4																				
5																				
6																				

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **G. Begaye**

RELINQUISHED BY: **G. Begaye** DATE: **10-12-2020** TIME: **1030**

Printed Name and Signature: **G. Begaye**

Printed Name and Signature: **G. Begaye**

Printed Name and Signature: **G. Begaye**

Printed Name and Signature: **G. Begaye**

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5508**

RECEIVED BY: **Wesley Miller** DATE: **10/13/2020** TIME: **1043**

Printed Name and Signature: **Wesley Miller**

Printed Name and Signature: **Wesley Miller**

Printed Name and Signature: **Wesley Miller**

Printed Name and Signature: **Wesley Miller**

gem

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-043-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8260C)	(6011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)		Alkalinity (Total, Carbonate, and Bicarbonate) (5423208)
1	GW043-204	10-12-2020	1015	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Beguy</i> RELINQUISHED BY: <i>G. Beguy</i> Printed Name and Signature: <i>G. Beguy</i> Printed Name and Signature: <i>G. Beguy</i> Printed Name and Signature: <i>G. Beguy</i> COURIER AND SHIPPING NUMBER: <i>FedEx 8155 2826 5508</i> RECEIVED BY: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> Printed Name and Signature: <i>Wesley Miller</i> TB204- <i>32</i> DATE: <i>10-12-2020</i> TIME: <i>1630</i> DATE: <i>10-13-2020</i> TIME: <i>1413</i>															

qcm

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-036-204

PROJECT NAME:
Kirtland AFB Bulk Fuels
Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5423208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW036-204	10-12-2020	0935	10	3	—	2	1	1*	1	1	1				
2																
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
G. Beyre

RELINQUISHED BY:
G. Beyre

DATE
10-12-2020

TIME
1030

COURIER AND SHIPPING NUMBER:
FedEx 8155 2826 5508

RECEIVED BY:
Wesley Miller

DATE
10/15/2020

TIME
1042

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-32

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258

YEAR: 2020
QUARTER: 4

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM220B)			
1	TB204-32	10/12/2020	1200	4	2			2								
2																
3																
4																
5																

Associated with:
GW026-204
GW036-204
GW043-204

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5508

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

Printed Name and Signature: J Livingston Josh Z 10/12/2020 1030

Printed Name and Signature: westley miller 10/13/2020 1043

Printed Name and Signature:

Printed Name and Signature:

CPM

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-17030-1

Login Number: 17030**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



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Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-17173-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 1

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
12/18/2020 3:25:15 PM

Darlene Bandy, Project Manager I
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
12/18/2020 3:25:15 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Job ID: 410-17173-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17173-1

Revision

The report (revision 1) is being revised due to: The limits for the MS/MSD for Lead 6020A were corrected from 88-118% to 88-115% per the QSM.

Receipt

The samples were received on 10/14/2020 10:43 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.6° C, 0.7° C, 0.8° C, 0.9° C, 1.0° C and 1.3° C.

GC/MS VOA

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-58334 recovered above the upper control limit for Chloroethane and Bromomethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The response for Carbon disulfide, Bromoform, Hexachlorobutadiene and Tetrachloroethene in the continuing calibration verification marginally exceeds the DoD acceptance criteria on batch 410-58334. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The continuing calibration verification (CCV) analyzed on analytical batch 410-58334 is compliant under 8260C/D method criteria for Chloromethane. The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW085-204 (410-17173-1), GW085-604 (410-17173-2), GW086-204 (410-17173-3), TB204-39 (410-17173-4), GW087-204 (410-17173-5), GW089-204 (410-17173-6), GW090-204 (410-17173-7), TB204-38 (410-17173-8), GW074-204 (410-17173-9), GW073-204 (410-17173-10), GW003-204 (410-17173-11), TB204-36 (410-17173-12), GW013-204 (410-17173-13), GW098-204 (410-17173-14), GW097-204 (410-17173-15), TB204-37 (410-17173-16), GW023-204 (410-17173-17), GW103-204 (410-17173-18), GW104-204 (410-17173-19) and TB204-40 (410-17173-20). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-58674 recovered above the upper control limit for Acetone and Tetrachloroethene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW070-204 (410-17173-21), GW070-604 (410-17173-22), GW071-204 (410-17173-23) and TB204-41 (410-17173-24). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 410-58334 recovered outside control limits for the following analytes: Acrolein.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Job ID: 410-17173-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW085-204

Lab Sample ID: 410-17173-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	81	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	65	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	69		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	10		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	29		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW085-604

Lab Sample ID: 410-17173-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromide	1.3	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	79	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	63	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	67		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	9.6		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.0		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	29		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	98		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	98		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW086-204

Lab Sample ID: 410-17173-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	25	D	4.0	3.0	2.0	mg/L	10			EPA 300.0 R2.1	Total/NA
Sulfate	57	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	49		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	6.8		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.56		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-39

Lab Sample ID: 410-17173-4

No Detections.

Client Sample ID: GW087-204

Lab Sample ID: 410-17173-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	34	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	43	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	40		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.6		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.2		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00083	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	96		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	96		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.64		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW089-204

Lab Sample ID: 410-17173-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Tetrachloroethene	0.26	J Q	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.074		0.029	0.019	0.0096	ug/L	1			8011	Total/NA
Chloride	15	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	39	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	43		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	6.0		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.3		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	23		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Lead	0.000086	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.38		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW090-204

Lab Sample ID: 410-17173-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	8.3	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	28	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	33		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	4.6		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.0		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00078	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW090-204 (Continued)

Lab Sample ID: 410-17173-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.11		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-38

Lab Sample ID: 410-17173-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.20	J Q	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

Client Sample ID: GW074-204

Lab Sample ID: 410-17173-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.7		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	22	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	67	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	47		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.5		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.3		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	98		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	98		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.81		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW073-204

Lab Sample ID: 410-17173-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.69	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Bromide	1.4	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	53	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	52	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	61		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	8.8		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	27		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.0085	J	0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Lead	0.00020	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.4		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW003-204

Lab Sample ID: 410-17173-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.4	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	65	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	190	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	100		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	16		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	34		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	93		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	93		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.6		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: TB204-36

Lab Sample ID: 410-17173-12

No Detections.

Client Sample ID: GW013-204

Lab Sample ID: 410-17173-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	23	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	35	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	46		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.0		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.0038	J	0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Lead	0.000087	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.40		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW098-204

Lab Sample ID: 410-17173-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	49	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	45		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.5		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	23		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00091	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW098-204 (Continued)

Lab Sample ID: 410-17173-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.80		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW097-204

Lab Sample ID: 410-17173-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	18	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	38	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	39		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	5.8		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.3		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.55		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-37

Lab Sample ID: 410-17173-16

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.21	J Q	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

Client Sample ID: GW023-204

Lab Sample ID: 410-17173-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.6	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	68	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	34	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	51		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.2		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	31		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00082	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.000073	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.1		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW103-204

Lab Sample ID: 410-17173-18

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.3	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	41	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	37	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	45		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.2		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	28		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00071	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.4		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW104-204

Lab Sample ID: 410-17173-19

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.8	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	32		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.4		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.10		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-40

Lab Sample ID: 410-17173-20

No Detections.

Client Sample ID: GW070-204

Lab Sample ID: 410-17173-21

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.31	J	1.0	0.50	0.30	ug/L	1		8260C DOD	Total/NA
Acetone	2.1	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Bromide	1.8	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	78	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	56	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	71		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	10		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW070-204 (Continued)

Lab Sample ID: 410-17173-21

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Sodium	28		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Lead	0.00016	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW070-604

Lab Sample ID: 410-17173-22

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.37	J	1.0	0.50	0.30	ug/L	1		8260C DOD	Total/NA
Acetone	2.3	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Bromide	1.8	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	82	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	59	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	73	J1	0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	10	J1	0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	29	J1	1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Lead	0.00015	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW071-204

Lab Sample ID: 410-17173-23

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	33		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.7		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00092	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-41

Lab Sample ID: 410-17173-24

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.46	J Q	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW085-204

Lab Sample ID: 410-17173-1

Date Collected: 10/13/20 08:35

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:07	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 15:07	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:07	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 15:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:07	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:07	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:07	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:07	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 15:07	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 15:07	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 15:07	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 15:07	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 15:07	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 15:07	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 15:07	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 15:07	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 15:07	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 15:07	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW085-204

Lab Sample ID: 410-17173-1

Date Collected: 10/13/20 08:35

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 15:07	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:07	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 15:07	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 15:07	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:07	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:07	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 15:07	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:07	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/26/20 15:07	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/26/20 15:07	1
Dibromofluoromethane (Surr)	101		80 - 119		10/26/20 15:07	1
Toluene-d8 (Surr)	97		89 - 112		10/26/20 15:07	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/21/20 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136	10/20/20 20:27	10/21/20 23:56	1
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/20/20 20:27	10/21/20 23:56	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 06:35	5
Chloride	81	D	20	15	10	mg/L		10/27/20 17:57	50
Sulfate	65	D	5.0	4.5	1.5	mg/L		10/18/20 06:35	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	69		0.20	0.15	0.096	mg/L		10/20/20 20:14	1
Magnesium	10		0.10	0.075	0.040	mg/L		10/20/20 20:14	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/20/20 20:14	1
Sodium	29		1.0	0.50	0.24	mg/L		10/20/20 20:14	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 11:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW085-204

Lab Sample ID: 410-17173-1

Date Collected: 10/13/20 08:35

Matrix: Water

Date Received: 10/14/20 10:43

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L	—	10/15/20 23:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L	—	10/20/20 19:00	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/20/20 19:00	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	—	10/16/20 00:52	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/16/20 00:52	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	—	10/16/20 00:52	1
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L	—	11/06/20 13:55	1

Client Sample ID: GW085-604

Lab Sample ID: 410-17173-2

Date Collected: 10/13/20 08:35

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/26/20 15:30	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/26/20 15:30	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/26/20 15:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/26/20 15:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/26/20 15:30	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/26/20 15:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/26/20 15:30	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/26/20 15:30	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/26/20 15:30	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/26/20 15:30	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 15:30	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/26/20 15:30	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/26/20 15:30	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L	—	10/26/20 15:30	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/26/20 15:30	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 15:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW085-604

Lab Sample ID: 410-17173-2

Date Collected: 10/13/20 08:35

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 15:30	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 15:30	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 15:30	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 15:30	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 15:30	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:30	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 15:30	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 15:30	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:30	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:30	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 15:30	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:30	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/26/20 15:30	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/26/20 15:30	1
Dibromofluoromethane (Surr)	101		80 - 119		10/26/20 15:30	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 15:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U M	0.029	0.019	0.0097	ug/L		10/22/20 00:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW085-604

Lab Sample ID: 410-17173-2

Date Collected: 10/13/20 08:35

Matrix: Water

Date Received: 10/14/20 10:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	84		46 - 136	10/20/20 20:27	10/22/20 00:13	1
1,1,2,2-Tetrachloroethane (2C)	86		46 - 136	10/20/20 20:27	10/22/20 00:13	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.3	J D	2.5	2.0	1.3	mg/L		10/18/20 07:11	5
Chloride	79	D	20	15	10	mg/L		10/27/20 18:14	50
Sulfate	63	D	5.0	4.5	1.5	mg/L		10/18/20 07:11	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	67		0.20	0.15	0.096	mg/L		10/20/20 20:17	1
Magnesium	9.6		0.10	0.075	0.040	mg/L		10/20/20 20:17	1
Potassium	3.0		0.50	0.38	0.20	mg/L		10/20/20 20:17	1
Sodium	29		1.0	0.50	0.24	mg/L		10/20/20 20:17	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 22:54	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 22:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:10	1
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L		10/20/20 19:10	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	98		8.0	6.0	8.0	mg/L		10/16/20 00:46	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 00:46	1
Total Alkalinity as CaCO ₃ to pH 4.5	98		8.0	6.0	8.0	mg/L		10/16/20 00:46	1
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L		11/06/20 13:58	1

Client Sample ID: GW086-204

Lab Sample ID: 410-17173-3

Date Collected: 10/13/20 09:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:52	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 15:52	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 15:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW086-204

Lab Sample ID: 410-17173-3

Date Collected: 10/13/20 09:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:52	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:52	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 15:52	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 15:52	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 15:52	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 15:52	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 15:52	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 15:52	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 15:52	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 15:52	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 15:52	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 15:52	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 15:52	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 15:52	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 15:52	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 15:52	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 15:52	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 15:52	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW086-204

Lab Sample ID: 410-17173-3

Date Collected: 10/13/20 09:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 15:52	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 15:52	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/26/20 15:52	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/26/20 15:52	1
Dibromofluoromethane (Surr)	101		80 - 119		10/26/20 15:52	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 15:52	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/22/20 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	80		46 - 136	10/20/20 20:27	10/22/20 00:30	1
1,1,2,2-Tetrachloroethane (2C)	83		46 - 136	10/20/20 20:27	10/22/20 00:30	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 07:47	5
Chloride	25	D	4.0	3.0	2.0	mg/L		10/21/20 21:25	10
Sulfate	57	D	5.0	4.5	1.5	mg/L		10/18/20 07:47	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	49		0.20	0.15	0.096	mg/L		10/20/20 20:21	1
Magnesium	6.8		0.10	0.075	0.040	mg/L		10/20/20 20:21	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/20/20 20:21	1
Sodium	24		1.0	0.50	0.24	mg/L		10/20/20 20:21	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 22:57	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 22:57	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:29	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:29	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/16/20 03:53	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 03:53	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 03:53	1
Nitrate Nitrite as N	0.56		0.10	0.090	0.040	mg/L		11/06/20 13:59	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-39

Lab Sample ID: 410-17173-4

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 12:33	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 12:33	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 12:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 12:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 12:33	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 12:33	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 12:33	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 12:33	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 12:33	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 12:33	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 12:33	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 12:33	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 12:33	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 12:33	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 12:33	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 12:33	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 12:33	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 12:33	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-39

Lab Sample ID: 410-17173-4

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 12:33	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 12:33	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 12:33	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 12:33	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:33	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 12:33	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 12:33	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:33	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/26/20 12:33	1
4-Bromofluorobenzene (Surr)	99		85 - 114		10/26/20 12:33	1
Dibromofluoromethane (Surr)	107		80 - 119		10/26/20 12:33	1
Toluene-d8 (Surr)	103		89 - 112		10/26/20 12:33	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/22/20 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	80		46 - 136	10/20/20 20:27	10/22/20 01:21	1
1,1,2,2-Tetrachloroethane (2C)	81		46 - 136	10/20/20 20:27	10/22/20 01:21	1

Client Sample ID: GW087-204

Lab Sample ID: 410-17173-5

Date Collected: 10/13/20 09:50

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:14	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 16:14	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW087-204

Lab Sample ID: 410-17173-5

Date Collected: 10/13/20 09:50

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 16:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:14	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:14	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:14	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:14	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 16:14	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 16:14	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 16:14	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 16:14	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 16:14	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 16:14	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 16:14	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 16:14	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 16:14	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 16:14	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 16:14	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:14	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 16:14	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 16:14	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW087-204

Lab Sample ID: 410-17173-5

Date Collected: 10/13/20 09:50

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:14	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 16:14	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:14	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/26/20 16:14	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/26/20 16:14	1
Dibromofluoromethane (Surr)	101		80 - 119		10/26/20 16:14	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 16:14	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/22/20 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	82		46 - 136	10/20/20 20:27	10/22/20 01:38	1
1,1,2,2-Tetrachloroethane (2C)	85		46 - 136	10/20/20 20:27	10/22/20 01:38	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 08:23	5
Chloride	34	D	20	15	10	mg/L		10/18/20 08:41	50
Sulfate	43	D	5.0	4.5	1.5	mg/L		10/18/20 08:23	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	40		0.20	0.15	0.096	mg/L		10/20/20 20:24	1
Magnesium	5.6		0.10	0.075	0.040	mg/L		10/20/20 20:24	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/20/20 20:24	1
Sodium	22		1.0	0.50	0.24	mg/L		10/20/20 20:24	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:07	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:07	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00083	J	0.0020	0.0016	0.00068	mg/L		10/20/20 19:37	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:37	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	96		8.0	6.0	8.0	mg/L		10/16/20 04:00	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW087-204

Lab Sample ID: 410-17173-5

Date Collected: 10/13/20 09:50

Matrix: Water

Date Received: 10/14/20 10:43

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 04:00	1
Total Alkalinity as CaCO ₃ to pH 4.5	96		8.0	6.0	8.0	mg/L		10/16/20 04:00	1
Nitrate Nitrite as N	0.64		0.10	0.090	0.040	mg/L		11/06/20 14:01	1

Client Sample ID: GW089-204

Lab Sample ID: 410-17173-6

Date Collected: 10/13/20 12:35

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:36	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 16:36	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:36	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 16:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:36	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/26/20 16:36	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:36	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:36	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 16:36	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 16:36	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 16:36	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 16:36	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 16:36	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 16:36	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 16:36	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 16:36	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 16:36	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 16:36	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW089-204

Lab Sample ID: 410-17173-6

Date Collected: 10/13/20 12:35

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/26/20 16:36	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L	—	10/26/20 16:36	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/26/20 16:36	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/26/20 16:36	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/26/20 16:36	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/26/20 16:36	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/26/20 16:36	1
Tetrachloroethene	0.26	J Q	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/26/20 16:36	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 16:36	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/26/20 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/26/20 16:36	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/26/20 16:36	1
Dibromofluoromethane (Surr)	102		80 - 119		10/26/20 16:36	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 16:36	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.074		0.029	0.019	0.0096	ug/L	—	10/22/20 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	86		46 - 136	10/20/20 20:27	10/22/20 01:55	1
1,1,2,2-Tetrachloroethane (2C)	87		46 - 136	10/20/20 20:27	10/22/20 01:55	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	10/18/20 09:35	5
Chloride	15	D	2.0	1.5	1.0	mg/L	—	10/18/20 09:35	5
Sulfate	39	D	5.0	4.5	1.5	mg/L	—	10/18/20 09:35	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW089-204

Lab Sample ID: 410-17173-6

Date Collected: 10/13/20 12:35

Matrix: Water

Date Received: 10/14/20 10:43

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	43		0.20	0.15	0.096	mg/L		10/20/20 20:27	1
Magnesium	6.0		0.10	0.075	0.040	mg/L		10/20/20 20:27	1
Potassium	2.3		0.50	0.38	0.20	mg/L		10/20/20 20:27	1
Sodium	23		1.0	0.50	0.24	mg/L		10/20/20 20:27	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:10	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:10	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:42	1
Lead	0.000086	J	0.00050	0.00025	0.000071	mg/L		10/20/20 19:42	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/16/20 00:59	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 00:59	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/16/20 00:59	1
Nitrate Nitrite as N	0.38		0.10	0.090	0.040	mg/L		11/06/20 14:02	1

Client Sample ID: GW090-204

Lab Sample ID: 410-17173-7

Date Collected: 10/13/20 12:10

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:58	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 16:58	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:58	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 16:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:58	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:58	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:58	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:58	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 16:58	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW090-204

Lab Sample ID: 410-17173-7

Date Collected: 10/13/20 12:10

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 16:58	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 16:58	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 16:58	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 16:58	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 16:58	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 16:58	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 16:58	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 16:58	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 16:58	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 16:58	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 16:58	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 16:58	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 16:58	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 16:58	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 16:58	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 16:58	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 16:58	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/26/20 16:58	1
4-Bromofluorobenzene (Surr)	108		85 - 114		10/26/20 16:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW090-204

Lab Sample ID: 410-17173-7

Date Collected: 10/13/20 12:10

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 119		10/26/20 16:58	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 16:58	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/22/20 02:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	84		46 - 136	10/20/20 20:27	10/22/20 02:12	1
1,1,2,2-Tetrachloroethane (2C)	85		46 - 136	10/20/20 20:27	10/22/20 02:12	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 00:33	5
Chloride	8.3	D	2.0	1.5	1.0	mg/L		10/18/20 00:33	5
Sulfate	28	D	5.0	4.5	1.5	mg/L		10/18/20 00:33	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	33		0.20	0.15	0.096	mg/L		10/20/20 20:31	1
Magnesium	4.6		0.10	0.075	0.040	mg/L		10/20/20 20:31	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/20/20 20:31	1
Sodium	21		1.0	0.50	0.24	mg/L		10/20/20 20:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:13	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:13	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00078	J	0.0020	0.0016	0.00068	mg/L		10/20/20 19:12	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:12	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/16/20 01:15	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 01:15	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 01:15	1
Nitrate Nitrite as N	0.11		0.10	0.090	0.040	mg/L		11/06/20 14:03	1

Client Sample ID: TB204-38

Lab Sample ID: 410-17173-8

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 12:55	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-38

Lab Sample ID: 410-17173-8

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 12:55	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 12:55	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 12:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 12:55	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 12:55	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 12:55	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 12:55	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 12:55	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 12:55	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 12:55	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 12:55	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 12:55	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 12:55	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 12:55	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 12:55	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 12:55	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 12:55	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 12:55	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 12:55	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 12:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-38

Lab Sample ID: 410-17173-8

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 12:55	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 12:55	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 12:55	1
Tetrachloroethene	0.20	J Q	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 12:55	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 12:55	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/26/20 12:55	1
4-Bromofluorobenzene (Surr)	98		85 - 114		10/26/20 12:55	1
Dibromofluoromethane (Surr)	100		80 - 119		10/26/20 12:55	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 12:55	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/22/20 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	80		46 - 136	10/20/20 20:27	10/22/20 02:29	1
1,1,2,2-Tetrachloroethane (2C)	81		46 - 136	10/20/20 20:27	10/22/20 02:29	1

Client Sample ID: GW074-204

Lab Sample ID: 410-17173-9

Date Collected: 10/12/20 08:41

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:23	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 14:23	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:23	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:23	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW074-204

Lab Sample ID: 410-17173-9

Date Collected: 10/12/20 08:41

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:23	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:23	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:23	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 14:23	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 14:23	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 14:23	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 14:23	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 14:23	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 14:23	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 14:23	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 14:23	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 14:23	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 14:23	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:23	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:23	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:23	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 14:23	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:23	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:23	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Toluene	1.7		1.0	0.50	0.20	ug/L		10/26/20 14:23	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW074-204

Lab Sample ID: 410-17173-9

Date Collected: 10/12/20 08:41

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 14:23	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:23	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/26/20 14:23	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/26/20 14:23	1
Dibromofluoromethane (Surr)	102		80 - 119		10/26/20 14:23	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 14:23	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/22/20 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136	10/20/20 20:27	10/22/20 02:46	1
1,1,2,2-Tetrachloroethane (2C)	82		46 - 136	10/20/20 20:27	10/22/20 02:46	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 18:53	5
Chloride	22	D	2.0	1.5	1.0	mg/L		10/17/20 18:53	5
Sulfate	67	D	5.0	4.5	1.5	mg/L		10/17/20 18:53	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	47		0.20	0.15	0.096	mg/L		10/20/20 20:34	1
Magnesium	6.5		0.10	0.075	0.040	mg/L		10/20/20 20:34	1
Potassium	2.3		0.50	0.38	0.20	mg/L		10/20/20 20:34	1
Sodium	25		1.0	0.50	0.24	mg/L		10/20/20 20:34	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:16	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:16	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L		10/20/20 19:19	1
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L		10/20/20 19:19	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	98		8.0	6.0	8.0	mg/L		10/16/20 01:35	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 01:35	1
Total Alkalinity as CaCO ₃ to pH 4.5	98		8.0	6.0	8.0	mg/L		10/16/20 01:35	1
Nitrate Nitrite as N	0.81		0.10	0.090	0.040	mg/L		11/06/20 14:04	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW073-204

Lab Sample ID: 410-17173-10

Date Collected: 10/12/20 10:51

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:45	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 14:45	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:45	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:45	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:45	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:45	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:45	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 14:45	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 14:45	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 14:45	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 14:45	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 14:45	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 14:45	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 14:45	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 14:45	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 14:45	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 14:45	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW073-204

Lab Sample ID: 410-17173-10

Date Collected: 10/12/20 10:51

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:45	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:45	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:45	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 14:45	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:45	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:45	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Toluene	0.69	J	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 14:45	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:45	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/26/20 14:45	1
4-Bromofluorobenzene (Surr)	98		85 - 114		10/26/20 14:45	1
Dibromofluoromethane (Surr)	101		80 - 119		10/26/20 14:45	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 14:45	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/22/20 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	85		46 - 136	10/20/20 20:27	10/22/20 03:03	1
1,1,2,2-Tetrachloroethane (2C)	83		46 - 136	10/20/20 20:27	10/22/20 03:03	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.4	J D	2.5	2.0	1.3	mg/L		10/17/20 19:27	5
Chloride	53	D	20	15	10	mg/L		10/17/20 19:44	50
Sulfate	52	D	5.0	4.5	1.5	mg/L		10/17/20 19:27	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	61		0.20	0.15	0.096	mg/L		10/20/20 20:37	1
Magnesium	8.8		0.10	0.075	0.040	mg/L		10/20/20 20:37	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/20/20 20:37	1
Sodium	27		1.0	0.50	0.24	mg/L		10/20/20 20:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:19	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW073-204

Lab Sample ID: 410-17173-10

Date Collected: 10/12/20 10:51

Matrix: Water

Date Received: 10/14/20 10:43

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0085	J	0.010	0.0052	0.0031	mg/L		10/23/20 10:45	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:25	1
Lead	0.00020	J	0.00050	0.00025	0.000071	mg/L		10/20/20 19:25	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/16/20 01:55	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 01:55	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/16/20 01:55	1
Nitrate Nitrite as N	1.4		0.10	0.090	0.040	mg/L		11/06/20 14:05	1

Client Sample ID: GW003-204

Lab Sample ID: 410-17173-11

Date Collected: 10/13/20 08:03

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 17:20	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 17:20	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 17:20	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 17:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 17:20	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 17:20	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 17:20	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 17:20	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 17:20	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 17:20	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 17:20	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 17:20	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 17:20	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 17:20	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW003-204

Lab Sample ID: 410-17173-11

Date Collected: 10/13/20 08:03

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 17:20	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 17:20	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 17:20	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 17:20	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 17:20	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 17:20	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 17:20	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 17:20	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:20	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 17:20	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 17:20	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:20	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/26/20 17:20	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/26/20 17:20	1
Dibromofluoromethane (Surr)	102		80 - 119		10/26/20 17:20	1
Toluene-d8 (Surr)	99		89 - 112		10/26/20 17:20	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/22/20 03:20	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW003-204

Lab Sample ID: 410-17173-11

Date Collected: 10/13/20 08:03

Matrix: Water

Date Received: 10/14/20 10:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	80		46 - 136	10/20/20 20:27	10/22/20 03:20	1
1,1,2,2-Tetrachloroethane (2C)	81		46 - 136	10/20/20 20:27	10/22/20 03:20	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.4	J D	2.5	2.0	1.3	mg/L		10/17/20 20:01	5
Chloride	65	D	20	15	10	mg/L		10/17/20 20:52	50
Sulfate	190	D	50	45	15	mg/L		10/17/20 20:52	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	100		0.20	0.15	0.096	mg/L		10/20/20 20:47	1
Magnesium	16		0.10	0.075	0.040	mg/L		10/20/20 20:47	1
Potassium	3.6		0.50	0.38	0.20	mg/L		10/20/20 20:47	1
Sodium	34		1.0	0.50	0.24	mg/L		10/20/20 20:47	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:22	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:22	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:30	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:30	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	93		8.0	6.0	8.0	mg/L		10/16/20 02:14	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 02:14	1
Total Alkalinity as CaCO ₃ to pH 4.5	93		8.0	6.0	8.0	mg/L		10/16/20 02:14	1
Nitrate Nitrite as N	2.6		0.20	0.18	0.080	mg/L		11/06/20 14:09	2

Client Sample ID: TB204-36

Lab Sample ID: 410-17173-12

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 13:17	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 13:17	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 13:17	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 13:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 13:17	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-36

Lab Sample ID: 410-17173-12

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 13:17	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 13:17	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 13:17	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 13:17	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 13:17	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 13:17	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 13:17	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 13:17	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 13:17	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 13:17	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 13:17	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 13:17	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 13:17	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 13:17	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 13:17	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 13:17	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 13:17	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:17	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 13:17	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-36

Lab Sample ID: 410-17173-12

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 13:17	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:17	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/26/20 13:17	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/26/20 13:17	1
Dibromofluoromethane (Surr)	100		80 - 119		10/26/20 13:17	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 13:17	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/22/20 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	80		46 - 136	10/20/20 20:27	10/22/20 03:37	1
1,1,2,2-Tetrachloroethane (2C)	83		46 - 136	10/20/20 20:27	10/22/20 03:37	1

Client Sample ID: GW013-204

Lab Sample ID: 410-17173-13

Date Collected: 10/13/20 10:26

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 17:42	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 17:42	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 17:42	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 17:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 17:42	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 17:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 17:42	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 17:42	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 17:42	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW013-204

Lab Sample ID: 410-17173-13

Date Collected: 10/13/20 10:26

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 17:42	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 17:42	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 17:42	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 17:42	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 17:42	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 17:42	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 17:42	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 17:42	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 17:42	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 17:42	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 17:42	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 17:42	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 17:42	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 17:42	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 17:42	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 17:42	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 17:42	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118					10/26/20 17:42	1
4-Bromofluorobenzene (Surr)	96		85 - 114					10/26/20 17:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW013-204

Lab Sample ID: 410-17173-13

Date Collected: 10/13/20 10:26

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 119		10/26/20 17:42	1
Toluene-d8 (Surr)	97		89 - 112		10/26/20 17:42	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/22/20 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	84		46 - 136	10/20/20 20:27	10/22/20 03:54	1
1,1,2,2-Tetrachloroethane (2C)	84		46 - 136	10/20/20 20:27	10/22/20 03:54	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 21:09	5
Chloride	23	D	2.0	1.5	1.0	mg/L		10/17/20 21:09	5
Sulfate	35	D	5.0	4.5	1.5	mg/L		10/17/20 21:09	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	46		0.20	0.15	0.096	mg/L		10/16/20 10:38	1
Magnesium	7.0		0.10	0.075	0.040	mg/L		10/16/20 10:38	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/18/20 15:31	1
Sodium	22		1.0	0.50	0.24	mg/L		10/18/20 15:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:26	1
Manganese	0.0038	J	0.010	0.0052	0.0031	mg/L		10/23/20 10:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:39	1
Lead	0.000087	J	0.00050	0.00025	0.000071	mg/L		10/20/20 19:39	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	130		8.0	6.0	8.0	mg/L		10/16/20 01:42	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 01:42	1
Total Alkalinity as CaCO3 to pH 4.5	130		8.0	6.0	8.0	mg/L		10/16/20 01:42	1
Nitrate Nitrite as N	0.40		0.10	0.090	0.040	mg/L		11/06/20 14:10	1

Client Sample ID: GW098-204

Lab Sample ID: 410-17173-14

Date Collected: 10/13/20 12:11

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:05	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW098-204

Lab Sample ID: 410-17173-14

Date Collected: 10/13/20 12:11

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 18:05	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:05	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:05	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:05	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:05	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:05	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 18:05	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 18:05	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 18:05	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 18:05	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 18:05	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 18:05	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 18:05	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 18:05	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 18:05	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 18:05	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:05	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:05	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW098-204

Lab Sample ID: 410-17173-14

Date Collected: 10/13/20 12:11

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 18:05	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:05	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:05	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 18:05	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:05	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/26/20 18:05	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/26/20 18:05	1
Dibromofluoromethane (Surr)	103		80 - 119		10/26/20 18:05	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 18:05	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/22/20 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	85		46 - 136	10/20/20 20:27	10/22/20 04:45	1
1,1,2,2-Tetrachloroethane (2C)	86		46 - 136	10/20/20 20:27	10/22/20 04:45	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 21:43	5
Chloride	20	D	2.0	1.5	1.0	mg/L		10/17/20 21:43	5
Sulfate	49	D	5.0	4.5	1.5	mg/L		10/17/20 21:43	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	45		0.20	0.15	0.096	mg/L		10/20/20 20:50	1
Magnesium	6.5		0.10	0.075	0.040	mg/L		10/20/20 20:50	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/20/20 20:50	1
Sodium	23		1.0	0.50	0.24	mg/L		10/20/20 20:50	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:29	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:29	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW098-204

Lab Sample ID: 410-17173-14

Date Collected: 10/13/20 12:11

Matrix: Water

Date Received: 10/14/20 10:43

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00091	J	0.0020	0.0016	0.00068	mg/L		10/20/20 19:44	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/16/20 01:48	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 01:48	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 01:48	1
Nitrate Nitrite as N	0.80		0.10	0.090	0.040	mg/L		11/06/20 14:11	1

Client Sample ID: GW097-204

Lab Sample ID: 410-17173-15

Date Collected: 10/13/20 14:21

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 18:27	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:27	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:27	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:27	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:27	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:27	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 18:27	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 18:27	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 18:27	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 18:27	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 18:27	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 18:27	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 18:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW097-204

Lab Sample ID: 410-17173-15

Date Collected: 10/13/20 14:21

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 18:27	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 18:27	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 18:27	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:27	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:27	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:27	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 18:27	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:27	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:27	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 18:27	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:27	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/26/20 18:27	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/26/20 18:27	1
Dibromofluoromethane (Surr)	102		80 - 119		10/26/20 18:27	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 18:27	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/22/20 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	83		46 - 136	10/20/20 20:27	10/22/20 05:02	1
1,1,2,2-Tetrachloroethane (2C)	83		46 - 136	10/20/20 20:27	10/22/20 05:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW097-204

Lab Sample ID: 410-17173-15

Date Collected: 10/13/20 14:21

Matrix: Water

Date Received: 10/14/20 10:43

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 22:17	5
Chloride	18	D	2.0	1.5	1.0	mg/L		10/17/20 22:17	5
Sulfate	38	D	5.0	4.5	1.5	mg/L		10/17/20 22:17	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	39		0.20	0.15	0.096	mg/L		10/16/20 10:31	1
Magnesium	5.8		0.10	0.075	0.040	mg/L		10/16/20 10:31	1
Potassium	2.3		0.50	0.38	0.20	mg/L		10/18/20 15:24	1
Sodium	21		1.0	0.50	0.24	mg/L		10/18/20 15:24	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:32	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:32	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L		10/20/20 19:17	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:17	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/16/20 00:40	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 00:40	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 00:40	1
Nitrate Nitrite as N	0.55		0.10	0.090	0.040	mg/L		11/06/20 14:15	1

Client Sample ID: TB204-37

Lab Sample ID: 410-17173-16

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 13:39	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 13:39	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 13:39	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 13:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 13:39	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 13:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 13:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-37

Lab Sample ID: 410-17173-16

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 13:39	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 13:39	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 13:39	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 13:39	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 13:39	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 13:39	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 13:39	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 13:39	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 13:39	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 13:39	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 13:39	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 13:39	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 13:39	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 13:39	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 13:39	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 13:39	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 13:39	1
Tetrachloroethene	0.21	J Q	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-37

Lab Sample ID: 410-17173-16

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 13:39	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 13:39	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 13:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118					10/26/20 13:39	1
4-Bromofluorobenzene (Surr)	97		85 - 114					10/26/20 13:39	1
Dibromofluoromethane (Surr)	100		80 - 119					10/26/20 13:39	1
Toluene-d8 (Surr)	98		89 - 112					10/26/20 13:39	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/22/20 05:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	77		46 - 136				10/20/20 20:27	10/22/20 05:19	1
1,1,2,2-Tetrachloroethane (2C)	78		46 - 136				10/20/20 20:27	10/22/20 05:19	1

Client Sample ID: GW023-204

Lab Sample ID: 410-17173-17

Date Collected: 10/13/20 13:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:49	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 18:49	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:49	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:49	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:49	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:49	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:49	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 18:49	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 18:49	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 18:49	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 18:49	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW023-204

Lab Sample ID: 410-17173-17

Date Collected: 10/13/20 13:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 18:49	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 18:49	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 18:49	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 18:49	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 18:49	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 18:49	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:49	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 18:49	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 18:49	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 18:49	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 18:49	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 18:49	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 18:49	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 18:49	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/26/20 18:49	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/26/20 18:49	1
Dibromofluoromethane (Surr)	102		80 - 119		10/26/20 18:49	1
Toluene-d8 (Surr)	97		89 - 112		10/26/20 18:49	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW023-204

Lab Sample ID: 410-17173-17

Date Collected: 10/13/20 13:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/22/20 05:36	1
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136					10/20/20 20:27	10/22/20 05:36
1,1,2,2-Tetrachloroethane (2C)	82		46 - 136					10/20/20 20:27	10/22/20 05:36

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.6	J D	2.5	2.0	1.3	mg/L		10/17/20 22:51	5
Chloride	68	D	20	15	10	mg/L		10/17/20 23:08	50
Sulfate	34	D	5.0	4.5	1.5	mg/L		10/17/20 22:51	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	51		0.20	0.15	0.096	mg/L		10/16/20 10:28	1
Magnesium	7.2		0.10	0.075	0.040	mg/L		10/16/20 10:28	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/18/20 15:21	1
Sodium	31		1.0	0.50	0.24	mg/L		10/18/20 15:21	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:35	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:35	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00082	J	0.0020	0.0016	0.00068	mg/L		10/20/20 19:20	1
Lead	0.000073	J	0.00050	0.00025	0.000071	mg/L		10/20/20 19:20	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L		10/16/20 01:29	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 01:29	1
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L		10/16/20 01:29	1
Nitrate Nitrite as N	2.1		0.10	0.090	0.040	mg/L		11/06/20 14:16	1

Client Sample ID: GW103-204

Lab Sample ID: 410-17173-18

Date Collected: 10/13/20 13:50

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 19:11	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 19:11	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW103-204

Lab Sample ID: 410-17173-18

Date Collected: 10/13/20 13:50

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 19:11	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 19:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 19:11	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 19:11	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 19:11	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 19:11	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 19:11	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 19:11	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 19:11	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 19:11	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 19:11	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 19:11	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 19:11	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 19:11	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 19:11	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 19:11	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 19:11	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 19:11	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 19:11	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 19:11	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW103-204

Lab Sample ID: 410-17173-18

Date Collected: 10/13/20 13:50

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:11	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 19:11	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 19:11	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:11	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/26/20 19:11	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/26/20 19:11	1
Dibromofluoromethane (Surr)	102		80 - 119		10/26/20 19:11	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 19:11	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/22/20 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	82		46 - 136	10/20/20 20:27	10/22/20 05:53	1
1,1,2,2-Tetrachloroethane (2C)	82		46 - 136	10/20/20 20:27	10/22/20 05:53	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.3	J D	2.5	2.0	1.3	mg/L		10/17/20 23:25	5
Chloride	41	D	20	15	10	mg/L		10/18/20 00:16	50
Sulfate	37	D	5.0	4.5	1.5	mg/L		10/17/20 23:25	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	45		0.20	0.15	0.096	mg/L		10/16/20 10:24	1
Magnesium	6.2		0.10	0.075	0.040	mg/L		10/16/20 10:24	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/18/20 15:18	1
Sodium	28		1.0	0.50	0.24	mg/L		10/18/20 15:18	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:44	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00071	J	0.0020	0.0016	0.00068	mg/L		10/20/20 19:27	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:27	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW103-204

Lab Sample ID: 410-17173-18

Date Collected: 10/13/20 13:50

Matrix: Water

Date Received: 10/14/20 10:43

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/16/20 01:22	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 01:22	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 01:22	1
Nitrate Nitrite as N	1.4		0.10	0.090	0.040	mg/L		11/06/20 14:17	1

Client Sample ID: GW104-204

Lab Sample ID: 410-17173-19

Date Collected: 10/13/20 14:15

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 19:33	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 19:33	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 19:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 19:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 19:33	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 19:33	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 19:33	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 19:33	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 19:33	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 19:33	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 19:33	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 19:33	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 19:33	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 19:33	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 19:33	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 19:33	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 19:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW104-204

Lab Sample ID: 410-17173-19

Date Collected: 10/13/20 14:15

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 19:33	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 19:33	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 19:33	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 19:33	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 19:33	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 19:33	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 19:33	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 19:33	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 19:33	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 19:33	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/26/20 19:33	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/26/20 19:33	1
Dibromofluoromethane (Surr)	103		80 - 119		10/26/20 19:33	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 19:33	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/22/20 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	80		46 - 136	10/20/20 20:27	10/22/20 06:10	1
1,1,2,2-Tetrachloroethane (2C)	80		46 - 136	10/20/20 20:27	10/22/20 06:10	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 18:01	5
Chloride	7.8	D	2.0	1.5	1.0	mg/L		10/17/20 18:01	5
Sulfate	27	D	5.0	4.5	1.5	mg/L		10/17/20 18:01	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW104-204

Lab Sample ID: 410-17173-19

Date Collected: 10/13/20 14:15

Matrix: Water

Date Received: 10/14/20 10:43

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	32		0.20	0.15	0.096	mg/L		10/16/20 10:21	1
Magnesium	4.4		0.10	0.075	0.040	mg/L		10/16/20 10:21	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/18/20 15:15	1
Sodium	24		1.0	0.50	0.24	mg/L		10/18/20 15:15	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:48	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L		10/20/20 19:32	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:32	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/16/20 02:01	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 02:01	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 02:01	1
Nitrate Nitrite as N	0.10		0.10	0.090	0.040	mg/L		11/06/20 14:18	1

Client Sample ID: TB204-40

Lab Sample ID: 410-17173-20

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:01	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 14:01	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:01	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:01	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:01	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:01	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:01	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 14:01	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-40

Lab Sample ID: 410-17173-20

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 14:01	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 14:01	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 14:01	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/26/20 14:01	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 14:01	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		10/26/20 14:01	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/26/20 14:01	1
Carbon disulfide	0.50	U Q	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 14:01	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/26/20 14:01	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:01	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 14:01	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 14:01	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 14:01	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 14:01	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 14:01	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 14:01	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 14:01	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118					10/26/20 14:01	1
4-Bromofluorobenzene (Surr)	98		85 - 114					10/26/20 14:01	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-40

Lab Sample ID: 410-17173-20

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 119		10/26/20 14:01	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 14:01	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/22/20 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136	10/20/20 20:27	10/22/20 06:27	1
1,1,2,2-Tetrachloroethane (2C)	81		46 - 136	10/20/20 20:27	10/22/20 06:27	1

Client Sample ID: GW070-204

Lab Sample ID: 410-17173-21

Date Collected: 10/13/20 10:45

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:47	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 23:47	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:47	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:47	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,2-Dichloroethane	0.31	J	1.0	0.50	0.30	ug/L		10/26/20 23:47	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:47	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:47	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 23:47	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 23:47	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/26/20 23:47	1
Acetone	2.1	J Q	20	2.0	0.70	ug/L		10/26/20 23:47	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/26/20 23:47	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 23:47	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW070-204

Lab Sample ID: 410-17173-21

Date Collected: 10/13/20 10:45

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/26/20 23:47	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:47	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 23:47	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/26/20 23:47	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:47	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:47	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:47	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 23:47	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:47	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:47	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 23:47	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:47	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/26/20 23:47	1
4-Bromofluorobenzene (Surr)	89		85 - 114		10/26/20 23:47	1
Dibromofluoromethane (Surr)	99		80 - 119		10/26/20 23:47	1
Toluene-d8 (Surr)	95		89 - 112		10/26/20 23:47	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/21/20 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136	10/20/20 20:57	10/21/20 21:57	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/20/20 20:57	10/21/20 21:57	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW070-204

Lab Sample ID: 410-17173-21

Date Collected: 10/13/20 10:45

Matrix: Water

Date Received: 10/14/20 10:43

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.8	J D	2.5	2.0	1.3	mg/L		10/18/20 01:58	5
Chloride	78	D	20	15	10	mg/L		10/18/20 02:16	50
Sulfate	56	D	5.0	4.5	1.5	mg/L		10/18/20 01:58	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	71		0.20	0.15	0.096	mg/L		10/16/20 10:35	1
Magnesium	10		0.10	0.075	0.040	mg/L		10/16/20 10:35	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/18/20 15:27	1
Sodium	28		1.0	0.50	0.24	mg/L		10/18/20 15:27	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:51	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:40	1
Lead	0.00016	J	0.00050	0.00025	0.000071	mg/L		10/20/20 19:40	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	130		8.0	6.0	8.0	mg/L		10/16/20 00:27	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 00:27	1
Total Alkalinity as CaCO ₃ to pH 4.5	130		8.0	6.0	8.0	mg/L		10/16/20 00:27	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/06/20 14:19	1

Client Sample ID: GW070-604

Lab Sample ID: 410-17173-22

Date Collected: 10/13/20 10:45

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:07	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 00:07	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:07	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:07	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,2-Dichloroethane	0.37	J	1.0	0.50	0.30	ug/L		10/27/20 00:07	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW070-604

Lab Sample ID: 410-17173-22

Date Collected: 10/13/20 10:45

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:07	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 00:07	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 00:07	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/27/20 00:07	1
Acetone	2.3	J Q	20	2.0	0.70	ug/L		10/27/20 00:07	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 00:07	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 00:07	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 00:07	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:07	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 00:07	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 00:07	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:07	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:07	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:07	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 00:07	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:07	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:07	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW070-604

Lab Sample ID: 410-17173-22

Date Collected: 10/13/20 10:45

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 00:07	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:07	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118					10/27/20 00:07	1
4-Bromofluorobenzene (Surr)	89		85 - 114					10/27/20 00:07	1
Dibromofluoromethane (Surr)	99		80 - 119					10/27/20 00:07	1
Toluene-d8 (Surr)	95		89 - 112					10/27/20 00:07	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/21/20 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	87		46 - 136				10/20/20 20:57	10/21/20 22:15	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136				10/20/20 20:57	10/21/20 22:15	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.8	J D	2.5	2.0	1.3	mg/L		10/18/20 02:33	5
Chloride	82	D	20	15	10	mg/L		10/18/20 02:50	50
Sulfate	59	D	5.0	4.5	1.5	mg/L		10/18/20 02:33	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	73	J1	0.20	0.15	0.096	mg/L		10/20/20 19:33	1
Magnesium	10	J1	0.10	0.075	0.040	mg/L		10/20/20 19:33	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/20/20 19:33	1
Sodium	29	J1	1.0	0.50	0.24	mg/L		10/20/20 19:33	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 23:54	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 23:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/16/20 17:22	1
Lead	0.00015	J	0.00050	0.00025	0.000071	mg/L		10/16/20 17:22	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	130		8.0	6.0	8.0	mg/L		10/16/20 00:33	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 00:33	1
Total Alkalinity as CaCO3 to pH 4.5	130		8.0	6.0	8.0	mg/L		10/16/20 00:33	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/06/20 14:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW071-204

Lab Sample ID: 410-17173-23

Date Collected: 10/13/20 10:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 00:27	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:27	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:27	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:27	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:27	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:27	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 00:27	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 00:27	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 00:27	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/27/20 00:27	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 00:27	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 00:27	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 00:27	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:27	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 00:27	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 00:27	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW071-204

Lab Sample ID: 410-17173-23

Date Collected: 10/13/20 10:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:27	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:27	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:27	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 00:27	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:27	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:27	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 00:27	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:27	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/27/20 00:27	1
4-Bromofluorobenzene (Surr)	88		85 - 114		10/27/20 00:27	1
Dibromofluoromethane (Surr)	99		80 - 119		10/27/20 00:27	1
Toluene-d8 (Surr)	94		89 - 112		10/27/20 00:27	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/21/20 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	82		46 - 136	10/20/20 20:57	10/21/20 22:32	1
1,1,2,2-Tetrachloroethane (2C)	87		46 - 136	10/20/20 20:57	10/21/20 22:32	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/18/20 03:41	5
Chloride	11	D	2.0	1.5	1.0	mg/L		10/18/20 03:41	5
Sulfate	27	D	5.0	4.5	1.5	mg/L		10/18/20 03:41	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	33		0.20	0.15	0.096	mg/L		10/16/20 10:11	1
Magnesium	4.7		0.10	0.075	0.040	mg/L		10/16/20 10:11	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/18/20 15:05	1
Sodium	21		1.0	0.50	0.24	mg/L		10/18/20 15:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 16:49	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW071-204

Lab Sample ID: 410-17173-23

Date Collected: 10/13/20 10:30

Matrix: Water

Date Received: 10/14/20 10:43

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L	—	10/15/20 16:49	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00092	J	0.0020	0.0016	0.00068	mg/L	—	10/20/20 19:22	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/20/20 19:22	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	—	10/16/20 02:08	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/16/20 02:08	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	—	10/16/20 02:08	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L	—	11/06/20 14:24	1

Client Sample ID: TB204-41

Lab Sample ID: 410-17173-24

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/26/20 23:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/26/20 23:27	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/26/20 23:27	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/26/20 23:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/26/20 23:27	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/26/20 23:27	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/26/20 23:27	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/26/20 23:27	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/26/20 23:27	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/26/20 23:27	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/26/20 23:27	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/26/20 23:27	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L	—	10/26/20 23:27	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/26/20 23:27	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/26/20 23:27	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/26/20 23:27	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-41

Lab Sample ID: 410-17173-24

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/26/20 23:27	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:27	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 23:27	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/26/20 23:27	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:27	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:27	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:27	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 23:27	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:27	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:27	1
Tetrachloroethene	0.46	J Q	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 23:27	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:27	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/26/20 23:27	1
4-Bromofluorobenzene (Surr)	88		85 - 114		10/26/20 23:27	1
Dibromofluoromethane (Surr)	98		80 - 119		10/26/20 23:27	1
Toluene-d8 (Surr)	95		89 - 112		10/26/20 23:27	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/21/20 22:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: TB204-41

Lab Sample ID: 410-17173-24

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,2,2-Tetrachloroethane (1C)	79		46 - 136	10/20/20 20:57	10/21/20 22:48	1
1,1,2,2-Tetrachloroethane (2C)	78		46 - 136	10/20/20 20:57	10/21/20 22:48	1

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Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(81-118)	(85-114)	(80-119)	(89-112)
410-17173-1	GW085-204	101	97	101	97
410-17173-2	GW085-604	101	97	101	98
410-17173-3	GW086-204	100	97	101	98
410-17173-4	TB204-39	102	99	107	103
410-17173-5	GW087-204	102	97	101	98
410-17173-6	GW089-204	102	97	102	98
410-17173-7	GW090-204	102	108	101	98
410-17173-8	TB204-38	101	98	100	98
410-17173-9	GW074-204	102	97	102	98
410-17173-10	GW073-204	101	98	101	98
410-17173-11	GW003-204	101	97	102	99
410-17173-12	TB204-36	100	97	100	98
410-17173-13	GW013-204	101	96	102	97
410-17173-14	GW098-204	104	96	103	98
410-17173-15	GW097-204	102	96	102	98
410-17173-16	TB204-37	100	97	100	98
410-17173-17	GW023-204	103	96	102	97
410-17173-18	GW103-204	101	96	102	98
410-17173-19	GW104-204	101	96	103	98
410-17173-20	TB204-40	100	98	100	98
410-17173-21	GW070-204	102	89	99	95
410-17173-22	GW070-604	99	89	99	95
410-17173-23	GW071-204	103	88	99	94
410-17173-24	TB204-41	100	88	98	95
LCS 410-58334/6	Lab Control Sample	99	101	99	99
LCS 410-58334/9	Lab Control Sample	100	98	98	97
LCS 410-58674/5	Lab Control Sample	99	92	98	97
LCS 410-58674/7	Lab Control Sample	100	90	96	95
LCSD 410-58334/10	Lab Control Sample Dup	100	98	99	106
LCSD 410-58334/8	Lab Control Sample Dup	100	98	100	96
LCSD 410-58674/6	Lab Control Sample Dup	100	91	97	96
LCSD 410-58674/8	Lab Control Sample Dup	100	90	97	96
MB 410-58334/12	Method Blank	101	98	99	98
MB 410-58674/10	Method Blank	99	89	98	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-17173-1	GW085-204	81	89
410-17173-2	GW085-604	84	86
410-17173-3	GW086-204	80	83

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-17173-4	TB204-39	80	81
410-17173-5	GW087-204	82	85
410-17173-6	GW089-204	86	87
410-17173-7	GW090-204	84	85
410-17173-8	TB204-38	80	81
410-17173-9	GW074-204	81	82
410-17173-10	GW073-204	85	83
410-17173-11	GW003-204	80	81
410-17173-12	TB204-36	80	83
410-17173-13	GW013-204	84	84
410-17173-14	GW098-204	85	86
410-17173-15	GW097-204	83	83
410-17173-16	TB204-37	77	78
410-17173-17	GW023-204	81	82
410-17173-18	GW103-204	82	82
410-17173-19	GW104-204	80	80
410-17173-20	TB204-40	81	81
410-17173-21	GW070-204	94	95
410-17173-22	GW070-604	87	91
410-17173-23	GW071-204	82	87
410-17173-24	TB204-41	79	78
LCS 410-56564/2-A	Lab Control Sample	81	84
LCS 410-56575/2-A	Lab Control Sample	84	86
LCSD 410-56564/3-A	Lab Control Sample Dup	79	81
LCSD 410-56575/3-A	Lab Control Sample Dup	82	83
MB 410-56564/1-A	Method Blank	84	85
MB 410-56575/1-A	Method Blank	85	83

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-58334/12

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 11:56	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 11:56	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 11:56	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 11:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 11:56	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 11:56	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 11:56	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 11:56	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 11:56	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 11:56	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 11:56	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 11:56	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/26/20 11:56	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 11:56	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/26/20 11:56	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 11:56	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 11:56	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/26/20 11:56	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-58334/12

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 11:56	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 11:56	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 11:56	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 11:56	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 11:56	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 11:56	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 11:56	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 11:56	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/26/20 11:56	1
4-Bromofluorobenzene (Surr)	98		85 - 114		10/26/20 11:56	1
Dibromofluoromethane (Surr)	99		80 - 119		10/26/20 11:56	1
Toluene-d8 (Surr)	98		89 - 112		10/26/20 11:56	1

Lab Sample ID: LCS 410-58334/6

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.6		ug/L		98	78 - 124
1,1,1-Trichloroethane	20.0	20.7		ug/L		103	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	71 - 121
1,1,2-Trichloroethane	20.0	21.0		ug/L		105	80 - 119
1,1-Dichloroethane	20.0	20.3		ug/L		101	77 - 125
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131
1,1-Dichloropropene	20.0	19.8		ug/L		99	79 - 125
1,2,3-Trichlorobenzene	20.0	21.5		ug/L		107	69 - 129
1,2,3-Trichloropropane	20.0	20.3		ug/L		101	73 - 122
1,2,4-Trichlorobenzene	20.0	21.6		ug/L		108	69 - 130
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 121
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 119
1,2-Dichloroethane	20.0	21.4		ug/L		107	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-58334/6

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.2		ug/L		101	78 - 122
1,3,5-Trimethylbenzene	20.0	22.4		ug/L		112	75 - 124
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 119
1,3-Dichloropropane	20.0	19.8		ug/L		99	80 - 119
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	79 - 118
2,2-Dichloropropane	20.0	22.5		ug/L		112	60 - 139
2-Butanone	150	139		ug/L		93	56 - 143
2-Chlorotoluene	20.0	20.9		ug/L		104	79 - 122
2-Hexanone	100	96.7		ug/L		97	57 - 139
4-Chlorotoluene	20.0	21.5		ug/L		107	78 - 122
4-Methyl-2-pentanone	100	97.5		ug/L		98	67 - 130
Acetone	150	138		ug/L		92	39 - 160
Acrolein	150	121		ug/L		81	39 - 155
Acrylonitrile	100	88.8		ug/L		89	63 - 135
Benzene	20.0	19.8		ug/L		99	42 - 138
Bromobenzene	20.0	20.5		ug/L		102	80 - 120
Bromochloromethane	20.0	19.4		ug/L		97	78 - 123
Bromodichloromethane	20.0	20.2		ug/L		101	79 - 125
Bromoform	20.0	15.4		ug/L		77	66 - 130
Bromomethane	20.0	17.5		ug/L		87	53 - 141
Carbon disulfide	20.0	17.9		ug/L		90	64 - 133
Carbon tetrachloride	20.0	19.9		ug/L		100	72 - 136
Chlorobenzene	20.0	20.0		ug/L		100	82 - 118
Chloroethane	20.0	17.3		ug/L		87	60 - 138
Chloroform	20.0	20.7		ug/L		103	79 - 124
Chloromethane	20.0	22.9		ug/L		115	50 - 139
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	78 - 123
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	75 - 124
Dibromochloromethane	20.0	18.0		ug/L		90	74 - 126
Dibromomethane	20.0	20.8		ug/L		104	79 - 123
Dichlorodifluoromethane	20.0	14.7		ug/L		73	32 - 152
Ethylbenzene	20.0	20.6		ug/L		103	79 - 121
Hexachlorobutadiene	20.0	20.8		ug/L		104	66 - 134
Isopropylbenzene	20.0	21.1		ug/L		105	72 - 131
m&p-Xylene	40.0	41.2		ug/L		103	80 - 121
Methyl tertiary butyl ether	20.0	19.9		ug/L		99	71 - 124
Methylene Chloride	20.0	20.3		ug/L		102	74 - 124
Naphthalene	20.0	21.9		ug/L		110	61 - 128
n-Butylbenzene	20.0	21.1		ug/L		106	75 - 128
N-Propylbenzene	20.0	21.6		ug/L		108	76 - 126
o-Xylene	20.0	20.7		ug/L		103	78 - 122
p-Isopropyltoluene	20.0	21.7		ug/L		109	77 - 127
sec-Butylbenzene	20.0	21.3		ug/L		106	77 - 126
Styrene	20.0	20.9		ug/L		104	78 - 123
tert-Butylbenzene	20.0	20.5		ug/L		103	78 - 124
Tetrachloroethene	20.0	17.7		ug/L		89	74 - 129
Toluene	20.0	19.9		ug/L		100	80 - 121
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	75 - 124
trans-1,3-Dichloropropene	20.0	20.0		ug/L		100	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-58334/6

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.1		ug/L		101	79 - 123
Trichlorofluoromethane	20.0	22.2		ug/L		111	65 - 141
Vinyl chloride	20.0	24.0		ug/L		120	58 - 137
Xylenes, Total	60.0	61.9		ug/L		103	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	101		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-58334/9

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	97.4		ug/L		97	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	98		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: LCSD 410-58334/10

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	94.2		ug/L		94	54 - 146	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	98		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	106		89 - 112

Lab Sample ID: LCSD 410-58334/8

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.0		ug/L		95	78 - 124	3	20
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		103	71 - 121	1	20
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	80 - 119	4	20
1,1-Dichloroethane	20.0	20.5		ug/L		103	77 - 125	1	20
1,1-Dichloroethene	20.0	22.0		ug/L		110	71 - 131	7	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-58334/8

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene	20.0	20.1		ug/L		101	79 - 125	2	20
1,2,3-Trichlorobenzene	20.0	21.9		ug/L		109	69 - 129	2	20
1,2,3-Trichloropropane	20.0	20.1		ug/L		101	73 - 122	1	20
1,2,4-Trichlorobenzene	20.0	22.0		ug/L		110	69 - 130	2	20
1,2,4-Trimethylbenzene	20.0	21.7		ug/L		108	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.2		ug/L		96	62 - 128	1	20
1,2-Dibromoethane	20.0	19.3		ug/L		97	77 - 121	3	20
1,2-Dichlorobenzene	20.0	22.4		ug/L		112	80 - 119	7	20
1,2-Dichloroethane	20.0	21.5		ug/L		107	73 - 128	1	20
1,2-Dichloropropane	20.0	20.6		ug/L		103	78 - 122	2	20
1,3,5-Trimethylbenzene	20.0	21.7		ug/L		109	75 - 124	3	20
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119	1	20
1,3-Dichloropropane	20.0	19.4		ug/L		97	80 - 119	2	20
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	79 - 118	3	20
2,2-Dichloropropane	20.0	23.0		ug/L		115	60 - 139	2	20
2-Butanone	150	139		ug/L		93	56 - 143	0	20
2-Chlorotoluene	20.0	20.5		ug/L		103	79 - 122	2	20
2-Hexanone	100	93.0		ug/L		93	57 - 139	4	20
4-Chlorotoluene	20.0	20.5		ug/L		102	78 - 122	5	20
4-Methyl-2-pentanone	100	96.9		ug/L		97	67 - 130	1	20
Acetone	150	142		ug/L		95	39 - 160	3	20
Acrolein	150	157	Q	ug/L		105	39 - 155	26	20
Acrylonitrile	100	89.2		ug/L		89	63 - 135	0	20
Benzene	20.0	20.0		ug/L		100	42 - 138	1	20
Bromobenzene	20.0	20.7		ug/L		104	80 - 120	1	20
Bromochloromethane	20.0	19.3		ug/L		96	78 - 123	1	20
Bromodichloromethane	20.0	20.1		ug/L		100	79 - 125	0	20
Bromoform	20.0	14.9		ug/L		74	66 - 130	3	20
Bromomethane	20.0	18.7		ug/L		93	53 - 141	7	20
Carbon disulfide	20.0	18.4		ug/L		92	64 - 133	3	20
Carbon tetrachloride	20.0	20.3		ug/L		102	72 - 136	2	20
Chlorobenzene	20.0	20.0		ug/L		100	82 - 118	0	20
Chloroethane	20.0	18.7		ug/L		93	60 - 138	7	20
Chloroform	20.0	21.1		ug/L		106	79 - 124	2	20
Chloromethane	20.0	23.2		ug/L		116	50 - 139	1	20
cis-1,2-Dichloroethene	20.0	21.9		ug/L		109	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	75 - 124	1	20
Dibromochloromethane	20.0	17.7		ug/L		89	74 - 126	2	20
Dibromomethane	20.0	20.8		ug/L		104	79 - 123	0	20
Dichlorodifluoromethane	20.0	15.2		ug/L		76	32 - 152	3	20
Ethylbenzene	20.0	19.9		ug/L		100	79 - 121	3	20
Hexachlorobutadiene	20.0	20.8		ug/L		104	66 - 134	0	20
Isopropylbenzene	20.0	20.4		ug/L		102	72 - 131	3	20
m&p-Xylene	40.0	40.4		ug/L		101	80 - 121	2	20
Methyl tertiary butyl ether	20.0	20.3		ug/L		101	71 - 124	2	20
Methylene Chloride	20.0	20.6		ug/L		103	74 - 124	1	20
Naphthalene	20.0	22.3		ug/L		111	61 - 128	1	20
n-Butylbenzene	20.0	22.7		ug/L		113	75 - 128	7	20
N-Propylbenzene	20.0	21.7		ug/L		108	76 - 126	0	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-58334/8

Matrix: Water

Analysis Batch: 58334

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	20.0	20.2		ug/L		101	78 - 122	2	20
p-Isopropyltoluene	20.0	22.0		ug/L		110	77 - 127	1	20
sec-Butylbenzene	20.0	21.8		ug/L		109	77 - 126	2	20
Styrene	20.0	20.3		ug/L		101	78 - 123	3	20
tert-Butylbenzene	20.0	20.5		ug/L		103	78 - 124	0	20
Tetrachloroethene	20.0	17.7		ug/L		89	74 - 129	0	20
Toluene	20.0	19.6		ug/L		98	80 - 121	2	20
trans-1,2-Dichloroethene	20.0	20.5		ug/L		102	75 - 124	0	20
trans-1,3-Dichloropropene	20.0	19.5		ug/L		97	73 - 127	3	20
Trichloroethene	20.0	20.3		ug/L		101	79 - 123	1	20
Trichlorofluoromethane	20.0	23.2		ug/L		116	65 - 141	4	20
Vinyl chloride	20.0	24.8		ug/L		124	58 - 137	3	20
Xylenes, Total	60.0	60.6		ug/L		101	79 - 121	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	98		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: MB 410-58674/10

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 23:00	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:00	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:00	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:00	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 23:00	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-58674/10

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 23:00	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 23:00	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 23:00	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/26/20 23:00	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 23:00	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/26/20 23:00	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 23:00	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/26/20 23:00	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:00	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:00	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 23:00	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:00	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 23:00	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 23:00	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-58674/10

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/26/20 23:00	1
4-Bromofluorobenzene (Surr)	89		85 - 114		10/26/20 23:00	1
Dibromofluoromethane (Surr)	98		80 - 119		10/26/20 23:00	1
Toluene-d8 (Surr)	94		89 - 112		10/26/20 23:00	1

Lab Sample ID: LCS 410-58674/5

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.8		ug/L		109	78 - 124
1,1,1-Trichloroethane	20.0	21.5		ug/L		108	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	71 - 121
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	80 - 119
1,1-Dichloroethane	20.0	21.1		ug/L		105	77 - 125
1,1-Dichloroethene	20.0	24.2		ug/L		121	71 - 131
1,1-Dichloropropene	20.0	22.0		ug/L		110	79 - 125
1,2,3-Trichlorobenzene	20.0	22.6		ug/L		113	69 - 129
1,2,3-Trichloropropane	20.0	20.3		ug/L		102	73 - 122
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/L		92	62 - 128
1,2-Dibromoethane	20.0	21.3		ug/L		106	77 - 121
1,2-Dichlorobenzene	20.0	22.1		ug/L		111	80 - 119
1,2-Dichloroethane	20.0	20.2		ug/L		101	73 - 128
1,2-Dichloropropane	20.0	21.4		ug/L		107	78 - 122
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	75 - 124
1,3-Dichlorobenzene	20.0	21.9		ug/L		109	80 - 119
1,3-Dichloropropane	20.0	20.4		ug/L		102	80 - 119
1,4-Dichlorobenzene	20.0	22.3		ug/L		112	79 - 118
2,2-Dichloropropane	20.0	21.1		ug/L		106	60 - 139
2-Butanone	150	149		ug/L		99	56 - 143
2-Chlorotoluene	20.0	21.5		ug/L		108	79 - 122
2-Hexanone	100	94.8		ug/L		95	57 - 139
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122
4-Methyl-2-pentanone	100	98.1		ug/L		98	67 - 130
Acetone	150	168		ug/L		112	39 - 160
Acrolein	150	142		ug/L		95	39 - 155
Acrylonitrile	100	105		ug/L		105	63 - 135
Benzene	20.0	21.8		ug/L		109	42 - 138
Bromobenzene	20.0	22.5		ug/L		113	80 - 120
Bromochloromethane	20.0	22.0		ug/L		110	78 - 123
Bromodichloromethane	20.0	20.8		ug/L		104	79 - 125
Bromoform	20.0	21.4		ug/L		107	66 - 130
Bromomethane	20.0	20.7		ug/L		104	53 - 141
Carbon disulfide	20.0	22.1		ug/L		111	64 - 133
Carbon tetrachloride	20.0	21.5		ug/L		108	72 - 136
Chlorobenzene	20.0	22.6		ug/L		113	82 - 118

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-58674/5

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	20.0	17.9		ug/L		89	60 - 138
Chloroform	20.0	21.6		ug/L		108	79 - 124
Chloromethane	20.0	17.0		ug/L		85	50 - 139
cis-1,2-Dichloroethene	20.0	23.7		ug/L		119	78 - 123
cis-1,3-Dichloropropene	20.0	20.3		ug/L		101	75 - 124
Dibromochloromethane	20.0	21.5		ug/L		108	74 - 126
Dibromomethane	20.0	21.3		ug/L		107	79 - 123
Dichlorodifluoromethane	20.0	19.2		ug/L		96	32 - 152
Ethylbenzene	20.0	21.3		ug/L		107	79 - 121
Hexachlorobutadiene	20.0	23.6		ug/L		118	66 - 134
Isopropylbenzene	20.0	21.8		ug/L		109	72 - 131
m&p-Xylene	40.0	45.1		ug/L		113	80 - 121
Methyl tertiary butyl ether	20.0	19.3		ug/L		96	71 - 124
Methylene Chloride	20.0	22.6		ug/L		113	74 - 124
Naphthalene	20.0	20.6		ug/L		103	61 - 128
n-Butylbenzene	20.0	19.8		ug/L		99	75 - 128
N-Propylbenzene	20.0	21.2		ug/L		106	76 - 126
o-Xylene	20.0	22.1		ug/L		110	78 - 122
p-Isopropyltoluene	20.0	21.5		ug/L		107	77 - 127
sec-Butylbenzene	20.0	21.0		ug/L		105	77 - 126
Styrene	20.0	22.1		ug/L		110	78 - 123
tert-Butylbenzene	20.0	20.5		ug/L		102	78 - 124
Tetrachloroethene	20.0	25.0		ug/L		125	74 - 129
Toluene	20.0	22.0		ug/L		110	80 - 121
trans-1,2-Dichloroethene	20.0	23.4		ug/L		117	75 - 124
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	73 - 127
Trichloroethene	20.0	22.5		ug/L		113	79 - 123
Trichlorofluoromethane	20.0	20.9		ug/L		104	65 - 141
Vinyl chloride	20.0	18.5		ug/L		92	58 - 137
Xylenes, Total	60.0	67.2		ug/L		112	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	92		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: LCS 410-58674/7

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	95.4		ug/L		95	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	90		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-58674/7

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		89 - 112

Lab Sample ID: LCSD 410-58674/6

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		104	78 - 124	5	20
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	74 - 131	5	20
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		94	71 - 121	7	20
1,1,2-Trichloroethane	20.0	20.5		ug/L		103	80 - 119	7	20
1,1-Dichloroethane	20.0	20.2		ug/L		101	77 - 125	4	20
1,1-Dichloroethene	20.0	23.2		ug/L		116	71 - 131	4	20
1,1-Dichloropropene	20.0	20.6		ug/L		103	79 - 125	7	20
1,2,3-Trichlorobenzene	20.0	20.9		ug/L		105	69 - 129	8	20
1,2,3-Trichloropropane	20.0	19.3		ug/L		96	73 - 122	5	20
1,2,4-Trichlorobenzene	20.0	21.1		ug/L		105	69 - 130	5	20
1,2,4-Trimethylbenzene	20.0	19.0		ug/L		95	76 - 124	6	20
1,2-Dibromo-3-Chloropropane	20.0	16.7		ug/L		84	62 - 128	10	20
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121	7	20
1,2-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 119	7	20
1,2-Dichloroethane	20.0	18.8		ug/L		94	73 - 128	7	20
1,2-Dichloropropane	20.0	19.9		ug/L		99	78 - 122	8	20
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		96	75 - 124	6	20
1,3-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 119	6	20
1,3-Dichloropropane	20.0	18.8		ug/L		94	80 - 119	8	20
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	79 - 118	6	20
2,2-Dichloropropane	20.0	19.9		ug/L		99	60 - 139	6	20
2-Butanone	150	139		ug/L		93	56 - 143	7	20
2-Chlorotoluene	20.0	20.4		ug/L		102	79 - 122	6	20
2-Hexanone	100	87.5		ug/L		88	57 - 139	8	20
4-Chlorotoluene	20.0	20.5		ug/L		103	78 - 122	6	20
4-Methyl-2-pentanone	100	91.7		ug/L		92	67 - 130	7	20
Acetone	150	166		ug/L		110	39 - 160	1	20
Acrolein	150	137		ug/L		91	39 - 155	4	20
Acrylonitrile	100	99.3		ug/L		99	63 - 135	6	20
Benzene	20.0	20.5		ug/L		102	42 - 138	6	20
Bromobenzene	20.0	21.0		ug/L		105	80 - 120	7	20
Bromochloromethane	20.0	20.6		ug/L		103	78 - 123	7	20
Bromodichloromethane	20.0	19.7		ug/L		98	79 - 125	6	20
Bromoform	20.0	20.5		ug/L		103	66 - 130	4	20
Bromomethane	20.0	19.8		ug/L		99	53 - 141	5	20
Carbon disulfide	20.0	21.0		ug/L		105	64 - 133	5	20
Carbon tetrachloride	20.0	20.3		ug/L		102	72 - 136	6	20
Chlorobenzene	20.0	21.1		ug/L		105	82 - 118	7	20
Chloroethane	20.0	17.4		ug/L		87	60 - 138	3	20
Chloroform	20.0	20.3		ug/L		101	79 - 124	6	20
Chloromethane	20.0	16.7		ug/L		84	50 - 139	2	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-58674/6

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.0	22.4		ug/L		112	78 - 123	5	20
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	75 - 124	6	20
Dibromochloromethane	20.0	20.1		ug/L		101	74 - 126	7	20
Dibromomethane	20.0	19.9		ug/L		99	79 - 123	7	20
Dichlorodifluoromethane	20.0	18.0		ug/L		90	32 - 152	6	20
Ethylbenzene	20.0	20.1		ug/L		101	79 - 121	6	20
Hexachlorobutadiene	20.0	21.8		ug/L		109	66 - 134	8	20
Isopropylbenzene	20.0	20.5		ug/L		102	72 - 131	7	20
m&p-Xylene	40.0	42.1		ug/L		105	80 - 121	7	20
Methyl tertiary butyl ether	20.0	18.2		ug/L		91	71 - 124	6	20
Methylene Chloride	20.0	21.4		ug/L		107	74 - 124	5	20
Naphthalene	20.0	19.1		ug/L		95	61 - 128	8	20
n-Butylbenzene	20.0	18.6		ug/L		93	75 - 128	6	20
N-Propylbenzene	20.0	19.8		ug/L		99	76 - 126	7	20
o-Xylene	20.0	20.5		ug/L		103	78 - 122	7	20
p-Isopropyltoluene	20.0	19.9		ug/L		99	77 - 127	8	20
sec-Butylbenzene	20.0	19.6		ug/L		98	77 - 126	7	20
Styrene	20.0	20.6		ug/L		103	78 - 123	7	20
tert-Butylbenzene	20.0	19.3		ug/L		97	78 - 124	6	20
Tetrachloroethene	20.0	22.9		ug/L		114	74 - 129	9	20
Toluene	20.0	20.6		ug/L		103	80 - 121	7	20
trans-1,2-Dichloroethene	20.0	21.7		ug/L		109	75 - 124	8	20
trans-1,3-Dichloropropene	20.0	17.8		ug/L		89	73 - 127	7	20
Trichloroethene	20.0	21.2		ug/L		106	79 - 123	6	20
Trichlorofluoromethane	20.0	19.8		ug/L		99	65 - 141	5	20
Vinyl chloride	20.0	18.2		ug/L		91	58 - 137	1	20
Xylenes, Total	60.0	62.6		ug/L		104	79 - 121	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	91		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: LCSD 410-58674/8

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	87.6		ug/L		88	54 - 146	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	90		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-56564/1-A

Matrix: Water

Analysis Batch: 57087

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56564

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L	-	10/21/20 23:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	84		46 - 136	10/20/20 20:27	10/21/20 23:05	1
1,1,2,2-Tetrachloroethane (2C)	85		46 - 136	10/20/20 20:27	10/21/20 23:05	1

Lab Sample ID: LCS 410-56564/2-A

Matrix: Water

Analysis Batch: 57087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.140		ug/L	-	110	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136
1,1,2,2-Tetrachloroethane (2C)	84		46 - 136

Lab Sample ID: LCSD 410-56564/3-A

Matrix: Water

Analysis Batch: 57087

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56564

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.139		ug/L	-	109	60 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	79		46 - 136
1,1,2,2-Tetrachloroethane (2C)	81		46 - 136

Lab Sample ID: MB 410-56575/1-A

Matrix: Water

Analysis Batch: 57087

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56575

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L	-	10/21/20 20:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	85		46 - 136	10/20/20 20:57	10/21/20 20:33	1
1,1,2,2-Tetrachloroethane (2C)	83		46 - 136	10/20/20 20:57	10/21/20 20:33	1

Lab Sample ID: LCS 410-56575/2-A

Matrix: Water

Analysis Batch: 57087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.153		ug/L	-	120	60 - 140

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 410-56575/2-A

Matrix: Water

Analysis Batch: 57087

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56575

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	84		46 - 136
1,1,2,2-Tetrachloroethane (2C)	86		46 - 136

Lab Sample ID: LCSD 410-56575/3-A

Matrix: Water

Analysis Batch: 57087

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56575

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.148		ug/L		115	60 - 140	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	82		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	83		46 - 136						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-55485/4

Matrix: Water

Analysis Batch: 55485

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/17/20 17:44	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/17/20 17:44	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/17/20 17:44	1

Lab Sample ID: LCS 410-55485/3

Matrix: Water

Analysis Batch: 55485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.39		mg/L		98	90 - 110
Chloride	3.00	2.98		mg/L		99	90 - 110
Sulfate	7.50	7.57		mg/L		101	90 - 110

Lab Sample ID: 410-17173-19 MS

Matrix: Water

Analysis Batch: 55485

Client Sample ID: GW104-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	2.0	U	25.0	24.8	D	mg/L		99	90 - 110
Chloride	7.8	D	10.0	18.1	D	mg/L		103	90 - 110
Sulfate	27	D	25.0	53.5	D	mg/L		105	90 - 110

Lab Sample ID: 410-17173-19 DU

Matrix: Water

Analysis Batch: 55485

Client Sample ID: GW104-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromide	2.0	U	2.0	U	mg/L		NC	15

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 410-17173-19 DU

Matrix: Water

Analysis Batch: 55485

Client Sample ID: GW104-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	7.8	D	7.87	D	mg/L		2	15
Sulfate	27	D	27.4	D	mg/L		0.3	15

Lab Sample ID: MB 410-55489/4

Matrix: Water

Analysis Batch: 55489

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/17/20 19:28	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/17/20 19:28	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/17/20 19:28	1

Lab Sample ID: LCS 410-55489/3

Matrix: Water

Analysis Batch: 55489

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	8.01		mg/L		107	90 - 110
Chloride	3.00	3.08		mg/L		103	90 - 110
Sulfate	7.50	7.70		mg/L		103	90 - 110

Lab Sample ID: MB 410-56653/4

Matrix: Water

Analysis Batch: 56653

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/21/20 13:36	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/21/20 13:36	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/21/20 13:36	1

Lab Sample ID: LCS 410-56653/3

Matrix: Water

Analysis Batch: 56653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.91		mg/L		105	90 - 110
Chloride	3.00	3.19		mg/L		106	90 - 110
Sulfate	7.50	7.67		mg/L		102	90 - 110

Lab Sample ID: MB 410-59072/4

Matrix: Water

Analysis Batch: 59072

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/27/20 14:33	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-59072/3

Matrix: Water

Analysis Batch: 59072

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	2.81		mg/L		94	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-54628/1-A

Matrix: Water

Analysis Batch: 54952

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54628

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/15/20 16:09	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/15/20 16:09	1

Lab Sample ID: LCS 410-54628/2-A

Matrix: Water

Analysis Batch: 54952

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.413		mg/L		103	87 - 115
Manganese	0.0200	0.0214		mg/L		107	90 - 114

Lab Sample ID: MB 410-54953/1-A

Matrix: Water

Analysis Batch: 57436

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54953

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 11:48	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 11:48	1

Lab Sample ID: LCS 410-54953/2-A

Matrix: Water

Analysis Batch: 55068

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.0200	0.0253	Q	mg/L		127	90 - 114

Lab Sample ID: LCS 410-54953/2-A

Matrix: Water

Analysis Batch: 57436

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.459		mg/L		114	87 - 115

Lab Sample ID: MB 410-54955/1-A

Matrix: Water

Analysis Batch: 57138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54955

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 22:27	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/21/20 22:27	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-54955/2-A

Matrix: Water

Analysis Batch: 57138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.441		mg/L		110	87 - 115
Manganese	0.0200	0.0258	Q	mg/L		129	90 - 114

Lab Sample ID: MB 410-57800/1-A

Matrix: Water

Analysis Batch: 57876

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57800

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/23/20 10:15	1

Lab Sample ID: LCS 410-57800/2-A

Matrix: Water

Analysis Batch: 57876

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.0200	0.0209		mg/L		105	90 - 114

Lab Sample ID: MB 410-54230/1-A

Matrix: Water

Analysis Batch: 55684

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 54230

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/18/20 13:58	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/18/20 13:58	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/18/20 13:58	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/18/20 13:58	1

Lab Sample ID: LCS 410-54230/2-A

Matrix: Water

Analysis Batch: 55684

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 54230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.410		mg/L		102	87 - 113
Magnesium	0.200	0.210		mg/L		105	85 - 113
Potassium	5.60	5.96		mg/L		106	86 - 114
Sodium	2.00	2.02		mg/L		101	87 - 115

Lab Sample ID: MB 410-54654/1-A

Matrix: Water

Analysis Batch: 56599

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 54654

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/20/20 19:26	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/20/20 19:26	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/20/20 19:26	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/20/20 19:26	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-54654/2-A

Matrix: Water

Analysis Batch: 56599

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 54654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.416		mg/L		104	87 - 113
Magnesium	0.200	0.193		mg/L		96	85 - 113
Potassium	5.60	5.60		mg/L		100	86 - 114
Sodium	2.00	2.11		mg/L		105	87 - 115

Lab Sample ID: 410-17173-22 MS

Matrix: Water

Analysis Batch: 56599

Client Sample ID: GW070-604

Prep Type: Total Recoverable

Prep Batch: 54654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	73	J1	0.400	73.8	4	mg/L		150	87 - 113
Magnesium	10	J1	0.200	10.4	4	mg/L		125	85 - 113
Potassium	3.1		5.60	8.75		mg/L		102	86 - 114
Sodium	29	J1	2.00	30.9	4	mg/L		104	87 - 115

Lab Sample ID: 410-17173-22 MSD

Matrix: Water

Analysis Batch: 56599

Client Sample ID: GW070-604

Prep Type: Total Recoverable

Prep Batch: 54654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	73	J1	0.400	74.6	4	mg/L		345	87 - 113	1	20
Magnesium	10	J1	0.200	10.5	4	mg/L		172	85 - 113	1	20
Potassium	3.1		5.60	8.80		mg/L		103	86 - 114	1	20
Sodium	29	J1	2.00	31.0	4	mg/L		110	87 - 115	0	20

Lab Sample ID: 410-17173-22 DU

Matrix: Water

Analysis Batch: 56599

Client Sample ID: GW070-604

Prep Type: Total Recoverable

Prep Batch: 54654

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	73	J1	72.8		mg/L		0.6	20
Magnesium	10	J1	10.1		mg/L		0.3	20
Potassium	3.1		3.06		mg/L		0.2	20
Sodium	29	J1	28.6		mg/L		0.7	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-54751/1-A

Matrix: Water

Analysis Batch: 56783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54751

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 18:57	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 18:57	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-54751/2-A

Matrix: Water

Analysis Batch: 56783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0600		mg/L		100	84 - 116
Lead	0.0300	0.0301		mg/L		100	88 - 115

Lab Sample ID: 410-17173-1 MS

Matrix: Water

Analysis Batch: 56783

Client Sample ID: GW085-204

Prep Type: Total/NA

Prep Batch: 54751

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00068	J	0.0600	0.0608		mg/L		101	84 - 116
Lead	0.00025	U	0.0300	0.0296		mg/L		99	88 - 115

Lab Sample ID: 410-17173-1 MSD

Matrix: Water

Analysis Batch: 56783

Client Sample ID: GW085-204

Prep Type: Total/NA

Prep Batch: 54751

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.00068	J	0.0600	0.0622		mg/L		104	84 - 116	2	20
Lead	0.00025	U	0.0300	0.0296		mg/L		99	88 - 115	0	20

Lab Sample ID: 410-17173-1 DU

Matrix: Water

Analysis Batch: 56783

Client Sample ID: GW085-204

Prep Type: Total/NA

Prep Batch: 54751

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.00068	J	0.0016	U	mg/L				NC	20
Lead	0.00025	U	0.00025	U	mg/L				NC	20

Lab Sample ID: MB 410-54841/1-A

Matrix: Water

Analysis Batch: 55656

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 54841

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/16/20 17:09	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/16/20 17:09	1

Lab Sample ID: LCS 410-54841/2-A

Matrix: Water

Analysis Batch: 55656

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 54841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0598		mg/L		100	84 - 116
Lead	0.0300	0.0299		mg/L		100	88 - 115

Lab Sample ID: LCSD 410-54841/3-A

Matrix: Water

Analysis Batch: 55656

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 54841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.0600	0.0618		mg/L		103	84 - 116	3	20
Lead	0.0300	0.0303		mg/L		101	88 - 115	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-55319/62

Matrix: Water

Analysis Batch: 55319

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 23:19	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 23:19	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/15/20 23:19	1

Lab Sample ID: MB 410-55319/93

Matrix: Water

Analysis Batch: 55319

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 02:30	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 02:30	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 02:30	1

Lab Sample ID: LCS 410-55319/63

Matrix: Water

Analysis Batch: 55319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	183		mg/L		97	82 - 106

Lab Sample ID: LCS 410-55319/94

Matrix: Water

Analysis Batch: 55319

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	183		mg/L		97	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-63148/20

Matrix: Water

Analysis Batch: 63148

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/06/20 13:50	1

Lab Sample ID: LCS 410-63148/21

Matrix: Water

Analysis Batch: 63148

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.29		mg/L		92	90 - 110

Lab Sample ID: 410-17173-1 MS

Matrix: Water

Analysis Batch: 63148

Client Sample ID: GW085-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.3		1.00	2.30		mg/L		98	90 - 110

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: 410-17173-14 MS

Matrix: Water

Analysis Batch: 63148

Client Sample ID: GW098-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.80		1.00	1.77		mg/L		97	90 - 110

Lab Sample ID: 410-17173-1 DU

Matrix: Water

Analysis Batch: 63148

Client Sample ID: GW085-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	1.3		1.29		mg/L		3	10

Lab Sample ID: 410-17173-14 DU

Matrix: Water

Analysis Batch: 63148

Client Sample ID: GW098-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.80		0.767		mg/L		4	10

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

GC/MS VOA

Analysis Batch: 58334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	8260C DOD	
410-17173-2	GW085-604	Total/NA	Water	8260C DOD	
410-17173-3	GW086-204	Total/NA	Water	8260C DOD	
410-17173-4	TB204-39	Total/NA	Water	8260C DOD	
410-17173-5	GW087-204	Total/NA	Water	8260C DOD	
410-17173-6	GW089-204	Total/NA	Water	8260C DOD	
410-17173-7	GW090-204	Total/NA	Water	8260C DOD	
410-17173-8	TB204-38	Total/NA	Water	8260C DOD	
410-17173-9	GW074-204	Total/NA	Water	8260C DOD	
410-17173-10	GW073-204	Total/NA	Water	8260C DOD	
410-17173-11	GW003-204	Total/NA	Water	8260C DOD	
410-17173-12	TB204-36	Total/NA	Water	8260C DOD	
410-17173-13	GW013-204	Total/NA	Water	8260C DOD	
410-17173-14	GW098-204	Total/NA	Water	8260C DOD	
410-17173-15	GW097-204	Total/NA	Water	8260C DOD	
410-17173-16	TB204-37	Total/NA	Water	8260C DOD	
410-17173-17	GW023-204	Total/NA	Water	8260C DOD	
410-17173-18	GW103-204	Total/NA	Water	8260C DOD	
410-17173-19	GW104-204	Total/NA	Water	8260C DOD	
410-17173-20	TB204-40	Total/NA	Water	8260C DOD	
MB 410-58334/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-58334/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-58334/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-58334/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-58334/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 58674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-21	GW070-204	Total/NA	Water	8260C DOD	
410-17173-22	GW070-604	Total/NA	Water	8260C DOD	
410-17173-23	GW071-204	Total/NA	Water	8260C DOD	
410-17173-24	TB204-41	Total/NA	Water	8260C DOD	
MB 410-58674/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-58674/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-58674/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-58674/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-58674/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 56564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	8011	
410-17173-2	GW085-604	Total/NA	Water	8011	
410-17173-3	GW086-204	Total/NA	Water	8011	
410-17173-4	TB204-39	Total/NA	Water	8011	
410-17173-5	GW087-204	Total/NA	Water	8011	
410-17173-6	GW089-204	Total/NA	Water	8011	
410-17173-7	GW090-204	Total/NA	Water	8011	
410-17173-8	TB204-38	Total/NA	Water	8011	
410-17173-9	GW074-204	Total/NA	Water	8011	

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

GC Semi VOA (Continued)

Prep Batch: 56564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-10	GW073-204	Total/NA	Water	8011	
410-17173-11	GW003-204	Total/NA	Water	8011	
410-17173-12	TB204-36	Total/NA	Water	8011	
410-17173-13	GW013-204	Total/NA	Water	8011	
410-17173-14	GW098-204	Total/NA	Water	8011	
410-17173-15	GW097-204	Total/NA	Water	8011	
410-17173-16	TB204-37	Total/NA	Water	8011	
410-17173-17	GW023-204	Total/NA	Water	8011	
410-17173-18	GW103-204	Total/NA	Water	8011	
410-17173-19	GW104-204	Total/NA	Water	8011	
410-17173-20	TB204-40	Total/NA	Water	8011	
MB 410-56564/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-56564/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-56564/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 56575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-21	GW070-204	Total/NA	Water	8011	
410-17173-22	GW070-604	Total/NA	Water	8011	
410-17173-23	GW071-204	Total/NA	Water	8011	
410-17173-24	TB204-41	Total/NA	Water	8011	
MB 410-56575/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-56575/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-56575/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 57087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	8011	56564
410-17173-2	GW085-604	Total/NA	Water	8011	56564
410-17173-3	GW086-204	Total/NA	Water	8011	56564
410-17173-4	TB204-39	Total/NA	Water	8011	56564
410-17173-5	GW087-204	Total/NA	Water	8011	56564
410-17173-6	GW089-204	Total/NA	Water	8011	56564
410-17173-7	GW090-204	Total/NA	Water	8011	56564
410-17173-8	TB204-38	Total/NA	Water	8011	56564
410-17173-9	GW074-204	Total/NA	Water	8011	56564
410-17173-10	GW073-204	Total/NA	Water	8011	56564
410-17173-11	GW003-204	Total/NA	Water	8011	56564
410-17173-12	TB204-36	Total/NA	Water	8011	56564
410-17173-13	GW013-204	Total/NA	Water	8011	56564
410-17173-14	GW098-204	Total/NA	Water	8011	56564
410-17173-15	GW097-204	Total/NA	Water	8011	56564
410-17173-16	TB204-37	Total/NA	Water	8011	56564
410-17173-17	GW023-204	Total/NA	Water	8011	56564
410-17173-18	GW103-204	Total/NA	Water	8011	56564
410-17173-19	GW104-204	Total/NA	Water	8011	56564
410-17173-20	TB204-40	Total/NA	Water	8011	56564
410-17173-21	GW070-204	Total/NA	Water	8011	56575
410-17173-22	GW070-604	Total/NA	Water	8011	56575
410-17173-23	GW071-204	Total/NA	Water	8011	56575
410-17173-24	TB204-41	Total/NA	Water	8011	56575

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

GC Semi VOA (Continued)

Analysis Batch: 57087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-56564/1-A	Method Blank	Total/NA	Water	8011	56564
MB 410-56575/1-A	Method Blank	Total/NA	Water	8011	56575
LCS 410-56564/2-A	Lab Control Sample	Total/NA	Water	8011	56564
LCS 410-56575/2-A	Lab Control Sample	Total/NA	Water	8011	56575
LCSD 410-56564/3-A	Lab Control Sample Dup	Total/NA	Water	8011	56564
LCSD 410-56575/3-A	Lab Control Sample Dup	Total/NA	Water	8011	56575

HPLC/IC

Analysis Batch: 55485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-7	GW090-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-9	GW074-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-10	GW073-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-10	GW073-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-11	GW003-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-11	GW003-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-13	GW013-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-14	GW098-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-15	GW097-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-17	GW023-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-17	GW023-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-18	GW103-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-18	GW103-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-19	GW104-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-21	GW070-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-21	GW070-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-22	GW070-604	Total/NA	Water	EPA 300.0 R2.1	
410-17173-22	GW070-604	Total/NA	Water	EPA 300.0 R2.1	
410-17173-23	GW071-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-55485/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55485/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-17173-19 MS	GW104-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-19 DU	GW104-204	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 55489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-2	GW085-604	Total/NA	Water	EPA 300.0 R2.1	
410-17173-3	GW086-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-5	GW087-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-5	GW087-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-6	GW089-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-55489/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55489/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 56653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-3	GW086-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56653/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56653/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

HPLC/IC

Analysis Batch: 59072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	EPA 300.0 R2.1	
410-17173-2	GW085-604	Total/NA	Water	EPA 300.0 R2.1	
MB 410-59072/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-59072/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 54230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-13	GW013-204	Total Recoverable	Water	3005A	
410-17173-15	GW097-204	Total Recoverable	Water	3005A	
410-17173-17	GW023-204	Total Recoverable	Water	3005A	
410-17173-18	GW103-204	Total Recoverable	Water	3005A	
410-17173-19	GW104-204	Total Recoverable	Water	3005A	
410-17173-21	GW070-204	Total Recoverable	Water	3005A	
410-17173-23	GW071-204	Total Recoverable	Water	3005A	
MB 410-54230/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-54230/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 54628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-23	GW071-204	Dissolved	Water	Non-Digest Prep	
MB 410-54628/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54628/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 54654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total Recoverable	Water	3005A	
410-17173-2	GW085-604	Total Recoverable	Water	3005A	
410-17173-3	GW086-204	Total Recoverable	Water	3005A	
410-17173-5	GW087-204	Total Recoverable	Water	3005A	
410-17173-6	GW089-204	Total Recoverable	Water	3005A	
410-17173-7	GW090-204	Total Recoverable	Water	3005A	
410-17173-9	GW074-204	Total Recoverable	Water	3005A	
410-17173-10	GW073-204	Total Recoverable	Water	3005A	
410-17173-11	GW003-204	Total Recoverable	Water	3005A	
410-17173-14	GW098-204	Total Recoverable	Water	3005A	
410-17173-22	GW070-604	Total Recoverable	Water	3005A	
MB 410-54654/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-54654/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-17173-22 MS	GW070-604	Total Recoverable	Water	3005A	
410-17173-22 MSD	GW070-604	Total Recoverable	Water	3005A	
410-17173-22 DU	GW070-604	Total Recoverable	Water	3005A	

Prep Batch: 54751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	3020A	
410-17173-2	GW085-604	Total/NA	Water	3020A	
410-17173-3	GW086-204	Total/NA	Water	3020A	
410-17173-5	GW087-204	Total/NA	Water	3020A	
410-17173-6	GW089-204	Total/NA	Water	3020A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Metals (Continued)

Prep Batch: 54751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-7	GW090-204	Total/NA	Water	3020A	
410-17173-9	GW074-204	Total/NA	Water	3020A	
410-17173-10	GW073-204	Total/NA	Water	3020A	
410-17173-11	GW003-204	Total/NA	Water	3020A	
410-17173-13	GW013-204	Total/NA	Water	3020A	
410-17173-14	GW098-204	Total/NA	Water	3020A	
410-17173-15	GW097-204	Total/NA	Water	3020A	
410-17173-17	GW023-204	Total/NA	Water	3020A	
410-17173-18	GW103-204	Total/NA	Water	3020A	
410-17173-19	GW104-204	Total/NA	Water	3020A	
410-17173-21	GW070-204	Total/NA	Water	3020A	
410-17173-23	GW071-204	Total/NA	Water	3020A	
MB 410-54751/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-54751/2-A	Lab Control Sample	Total/NA	Water	3020A	
410-17173-1 MS	GW085-204	Total/NA	Water	3020A	
410-17173-1 MSD	GW085-204	Total/NA	Water	3020A	
410-17173-1 DU	GW085-204	Total/NA	Water	3020A	

Prep Batch: 54841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-22	GW070-604	Total/NA	Water	3020A	
MB 410-54841/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-54841/2-A	Lab Control Sample	Total/NA	Water	3020A	
LCSD 410-54841/3-A	Lab Control Sample Dup	Total/NA	Water	3020A	

Analysis Batch: 54952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-23	GW071-204	Dissolved	Water	6010C	54628
MB 410-54628/1-A	Method Blank	Total/NA	Water	6010C	54628
LCS 410-54628/2-A	Lab Control Sample	Total/NA	Water	6010C	54628

Prep Batch: 54953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Dissolved	Water	Non-Digest Prep	
MB 410-54953/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54953/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 54955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-2	GW085-604	Dissolved	Water	Non-Digest Prep	
410-17173-3	GW086-204	Dissolved	Water	Non-Digest Prep	
410-17173-5	GW087-204	Dissolved	Water	Non-Digest Prep	
410-17173-6	GW089-204	Dissolved	Water	Non-Digest Prep	
410-17173-7	GW090-204	Dissolved	Water	Non-Digest Prep	
410-17173-9	GW074-204	Dissolved	Water	Non-Digest Prep	
410-17173-10	GW073-204	Dissolved	Water	Non-Digest Prep	
410-17173-11	GW003-204	Dissolved	Water	Non-Digest Prep	
410-17173-13	GW013-204	Dissolved	Water	Non-Digest Prep	
410-17173-14	GW098-204	Dissolved	Water	Non-Digest Prep	
410-17173-15	GW097-204	Dissolved	Water	Non-Digest Prep	
410-17173-17	GW023-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Metals (Continued)

Prep Batch: 54955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-18	GW103-204	Dissolved	Water	Non-Digest Prep	
410-17173-19	GW104-204	Dissolved	Water	Non-Digest Prep	
410-17173-21	GW070-204	Dissolved	Water	Non-Digest Prep	
410-17173-22	GW070-604	Dissolved	Water	Non-Digest Prep	
MB 410-54955/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-54955/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 55068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Dissolved	Water	6010C	54953
LCS 410-54953/2-A	Lab Control Sample	Total/NA	Water	6010C	54953

Analysis Batch: 55235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-13	GW013-204	Total Recoverable	Water	6010C	54230
410-17173-15	GW097-204	Total Recoverable	Water	6010C	54230
410-17173-17	GW023-204	Total Recoverable	Water	6010C	54230
410-17173-18	GW103-204	Total Recoverable	Water	6010C	54230
410-17173-19	GW104-204	Total Recoverable	Water	6010C	54230
410-17173-21	GW070-204	Total Recoverable	Water	6010C	54230
410-17173-23	GW071-204	Total Recoverable	Water	6010C	54230

Analysis Batch: 55656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-22	GW070-604	Total/NA	Water	6020A	54841
MB 410-54841/1-A	Method Blank	Total/NA	Water	6020A	54841
LCS 410-54841/2-A	Lab Control Sample	Total/NA	Water	6020A	54841
LCSD 410-54841/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	54841

Analysis Batch: 55684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-13	GW013-204	Total Recoverable	Water	6010C	54230
410-17173-15	GW097-204	Total Recoverable	Water	6010C	54230
410-17173-17	GW023-204	Total Recoverable	Water	6010C	54230
410-17173-18	GW103-204	Total Recoverable	Water	6010C	54230
410-17173-19	GW104-204	Total Recoverable	Water	6010C	54230
410-17173-21	GW070-204	Total Recoverable	Water	6010C	54230
410-17173-23	GW071-204	Total Recoverable	Water	6010C	54230
MB 410-54230/1-A	Method Blank	Total Recoverable	Water	6010C	54230
LCS 410-54230/2-A	Lab Control Sample	Total Recoverable	Water	6010C	54230

Analysis Batch: 56599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total Recoverable	Water	6010C	54654
410-17173-2	GW085-604	Total Recoverable	Water	6010C	54654
410-17173-3	GW086-204	Total Recoverable	Water	6010C	54654
410-17173-5	GW087-204	Total Recoverable	Water	6010C	54654
410-17173-6	GW089-204	Total Recoverable	Water	6010C	54654
410-17173-7	GW090-204	Total Recoverable	Water	6010C	54654
410-17173-9	GW074-204	Total Recoverable	Water	6010C	54654
410-17173-10	GW073-204	Total Recoverable	Water	6010C	54654

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Metals (Continued)

Analysis Batch: 56599 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-11	GW003-204	Total Recoverable	Water	6010C	54654
410-17173-14	GW098-204	Total Recoverable	Water	6010C	54654
410-17173-22	GW070-604	Total Recoverable	Water	6010C	54654
MB 410-54654/1-A	Method Blank	Total Recoverable	Water	6010C	54654
LCS 410-54654/2-A	Lab Control Sample	Total Recoverable	Water	6010C	54654
410-17173-22 MS	GW070-604	Total Recoverable	Water	6010C	54654
410-17173-22 MSD	GW070-604	Total Recoverable	Water	6010C	54654
410-17173-22 DU	GW070-604	Total Recoverable	Water	6010C	54654

Analysis Batch: 56783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	6020A	54751
410-17173-2	GW085-604	Total/NA	Water	6020A	54751
410-17173-3	GW086-204	Total/NA	Water	6020A	54751
410-17173-5	GW087-204	Total/NA	Water	6020A	54751
410-17173-6	GW089-204	Total/NA	Water	6020A	54751
410-17173-7	GW090-204	Total/NA	Water	6020A	54751
410-17173-9	GW074-204	Total/NA	Water	6020A	54751
410-17173-10	GW073-204	Total/NA	Water	6020A	54751
410-17173-11	GW003-204	Total/NA	Water	6020A	54751
410-17173-13	GW013-204	Total/NA	Water	6020A	54751
410-17173-14	GW098-204	Total/NA	Water	6020A	54751
410-17173-15	GW097-204	Total/NA	Water	6020A	54751
410-17173-17	GW023-204	Total/NA	Water	6020A	54751
410-17173-18	GW103-204	Total/NA	Water	6020A	54751
410-17173-19	GW104-204	Total/NA	Water	6020A	54751
410-17173-21	GW070-204	Total/NA	Water	6020A	54751
410-17173-23	GW071-204	Total/NA	Water	6020A	54751
MB 410-54751/1-A	Method Blank	Total/NA	Water	6020A	54751
LCS 410-54751/2-A	Lab Control Sample	Total/NA	Water	6020A	54751
410-17173-1 MS	GW085-204	Total/NA	Water	6020A	54751
410-17173-1 MSD	GW085-204	Total/NA	Water	6020A	54751
410-17173-1 DU	GW085-204	Total/NA	Water	6020A	54751

Analysis Batch: 57138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-2	GW085-604	Dissolved	Water	6010C	54955
410-17173-3	GW086-204	Dissolved	Water	6010C	54955
410-17173-5	GW087-204	Dissolved	Water	6010C	54955
410-17173-6	GW089-204	Dissolved	Water	6010C	54955
410-17173-7	GW090-204	Dissolved	Water	6010C	54955
410-17173-9	GW074-204	Dissolved	Water	6010C	54955
410-17173-10	GW073-204	Dissolved	Water	6010C	54955
410-17173-11	GW003-204	Dissolved	Water	6010C	54955
410-17173-13	GW013-204	Dissolved	Water	6010C	54955
410-17173-14	GW098-204	Dissolved	Water	6010C	54955
410-17173-15	GW097-204	Dissolved	Water	6010C	54955
410-17173-17	GW023-204	Dissolved	Water	6010C	54955
410-17173-18	GW103-204	Dissolved	Water	6010C	54955
410-17173-19	GW104-204	Dissolved	Water	6010C	54955
410-17173-21	GW070-204	Dissolved	Water	6010C	54955

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Metals (Continued)

Analysis Batch: 57138 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-22	GW070-604	Dissolved	Water	6010C	54955
MB 410-54955/1-A	Method Blank	Total/NA	Water	6010C	54955
LCS 410-54955/2-A	Lab Control Sample	Total/NA	Water	6010C	54955

Analysis Batch: 57436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Dissolved	Water	6010C	54953
MB 410-54953/1-A	Method Blank	Total/NA	Water	6010C	54953
LCS 410-54953/2-A	Lab Control Sample	Total/NA	Water	6010C	54953

Prep Batch: 57800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-10	GW073-204	Dissolved	Water	Non-Digest Prep	
410-17173-13	GW013-204	Dissolved	Water	Non-Digest Prep	
MB 410-57800/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-57800/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 57876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-10	GW073-204	Dissolved	Water	6010C	57800
410-17173-13	GW013-204	Dissolved	Water	6010C	57800
MB 410-57800/1-A	Method Blank	Total/NA	Water	6010C	57800
LCS 410-57800/2-A	Lab Control Sample	Total/NA	Water	6010C	57800

General Chemistry

Analysis Batch: 55319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	2320B-2011	
410-17173-2	GW085-604	Total/NA	Water	2320B-2011	
410-17173-3	GW086-204	Total/NA	Water	2320B-2011	
410-17173-5	GW087-204	Total/NA	Water	2320B-2011	
410-17173-6	GW089-204	Total/NA	Water	2320B-2011	
410-17173-7	GW090-204	Total/NA	Water	2320B-2011	
410-17173-9	GW074-204	Total/NA	Water	2320B-2011	
410-17173-10	GW073-204	Total/NA	Water	2320B-2011	
410-17173-11	GW003-204	Total/NA	Water	2320B-2011	
410-17173-13	GW013-204	Total/NA	Water	2320B-2011	
410-17173-14	GW098-204	Total/NA	Water	2320B-2011	
410-17173-15	GW097-204	Total/NA	Water	2320B-2011	
410-17173-17	GW023-204	Total/NA	Water	2320B-2011	
410-17173-18	GW103-204	Total/NA	Water	2320B-2011	
410-17173-19	GW104-204	Total/NA	Water	2320B-2011	
410-17173-21	GW070-204	Total/NA	Water	2320B-2011	
410-17173-22	GW070-604	Total/NA	Water	2320B-2011	
410-17173-23	GW071-204	Total/NA	Water	2320B-2011	
MB 410-55319/62	Method Blank	Total/NA	Water	2320B-2011	
MB 410-55319/93	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-55319/63	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-55319/94	Lab Control Sample	Total/NA	Water	2320B-2011	

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

General Chemistry

Analysis Batch: 63148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17173-1	GW085-204	Total/NA	Water	353.2	
410-17173-2	GW085-604	Total/NA	Water	353.2	
410-17173-3	GW086-204	Total/NA	Water	353.2	
410-17173-5	GW087-204	Total/NA	Water	353.2	
410-17173-6	GW089-204	Total/NA	Water	353.2	
410-17173-7	GW090-204	Total/NA	Water	353.2	
410-17173-9	GW074-204	Total/NA	Water	353.2	
410-17173-10	GW073-204	Total/NA	Water	353.2	
410-17173-11	GW003-204	Total/NA	Water	353.2	
410-17173-13	GW013-204	Total/NA	Water	353.2	
410-17173-14	GW098-204	Total/NA	Water	353.2	
410-17173-15	GW097-204	Total/NA	Water	353.2	
410-17173-17	GW023-204	Total/NA	Water	353.2	
410-17173-18	GW103-204	Total/NA	Water	353.2	
410-17173-19	GW104-204	Total/NA	Water	353.2	
410-17173-21	GW070-204	Total/NA	Water	353.2	
410-17173-22	GW070-604	Total/NA	Water	353.2	
410-17173-23	GW071-204	Total/NA	Water	353.2	
MB 410-63148/20	Method Blank	Total/NA	Water	353.2	
LCS 410-63148/21	Lab Control Sample	Total/NA	Water	353.2	
410-17173-1 MS	GW085-204	Total/NA	Water	353.2	
410-17173-14 MS	GW098-204	Total/NA	Water	353.2	
410-17173-1 DU	GW085-204	Total/NA	Water	353.2	
410-17173-14 DU	GW098-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW085-204

Lab Sample ID: 410-17173-1

Date Collected: 10/13/20 08:35

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 15:07	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/21/20 23:56	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 06:35	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	59072	10/27/20 17:57	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54953	10/15/20 19:08	UJLA	ELLE
Dissolved	Analysis	6010C		1	55068	10/15/20 23:14	UPJE	ELLE
Dissolved	Prep	Non-Digest Prep			54953	10/15/20 19:08	UJLA	ELLE
Dissolved	Analysis	6010C		1	57436	10/22/20 11:55	ULJC	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:14	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:00	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 00:52	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 13:55	KGQ6	ELLE

Client Sample ID: GW085-604

Lab Sample ID: 410-17173-2

Date Collected: 10/13/20 08:35

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 15:30	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 00:13	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 07:11	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	59072	10/27/20 18:14	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 22:54	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:17	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:10	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 00:46	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 13:58	KGQ6	ELLE

Client Sample ID: GW086-204

Lab Sample ID: 410-17173-3

Date Collected: 10/13/20 09:30

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 15:52	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 00:30	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 07:47	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW086-204

Date Collected: 10/13/20 09:30

Date Received: 10/14/20 10:43

Lab Sample ID: 410-17173-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		10	56653	10/21/20 21:25	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 22:57	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:21	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:29	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 03:53	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 13:59	KGQ6	ELLE

Client Sample ID: TB204-39

Date Collected: 10/13/20 11:00

Date Received: 10/14/20 10:43

Lab Sample ID: 410-17173-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 12:33	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 01:21	AC3T	ELLE

Client Sample ID: GW087-204

Date Collected: 10/13/20 09:50

Date Received: 10/14/20 10:43

Lab Sample ID: 410-17173-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 16:14	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 01:38	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 08:23	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55489	10/18/20 08:41	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:07	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:24	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:37	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 04:00	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:01	KGQ6	ELLE

Client Sample ID: GW089-204

Date Collected: 10/13/20 12:35

Date Received: 10/14/20 10:43

Lab Sample ID: 410-17173-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 16:36	NSK7	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW089-204

Lab Sample ID: 410-17173-6

Date Collected: 10/13/20 12:35

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 01:55	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55489	10/18/20 09:35	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:10	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:27	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:42	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 00:59	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:02	KGQ6	ELLE

Client Sample ID: GW090-204

Lab Sample ID: 410-17173-7

Date Collected: 10/13/20 12:10

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 16:58	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 02:12	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/18/20 00:33	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:13	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:31	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:12	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 01:15	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:03	KGQ6	ELLE

Client Sample ID: TB204-38

Lab Sample ID: 410-17173-8

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 12:55	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 02:29	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW074-204

Date Collected: 10/12/20 08:41

Date Received: 10/14/20 10:43

Lab Sample ID: 410-17173-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 14:23	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 02:46	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 18:53	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:16	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:34	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:19	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 01:35	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:04	KGQ6	ELLE

Client Sample ID: GW073-204

Date Collected: 10/12/20 10:51

Date Received: 10/14/20 10:43

Lab Sample ID: 410-17173-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 14:45	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 03:03	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 19:27	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55485	10/17/20 19:44	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57800	10/23/20 08:23	UAMX	ELLE
Dissolved	Analysis	6010C		1	57876	10/23/20 10:45	SB	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:19	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:37	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:25	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 01:55	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:05	KGQ6	ELLE

Client Sample ID: GW003-204

Date Collected: 10/13/20 08:03

Date Received: 10/14/20 10:43

Lab Sample ID: 410-17173-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 17:20	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 03:20	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 20:01	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55485	10/17/20 20:52	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW003-204**Lab Sample ID: 410-17173-11****Date Collected: 10/13/20 08:03****Matrix: Water****Date Received: 10/14/20 10:43**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:22	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:47	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:30	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 02:14	JB	ELLE
Total/NA	Analysis	353.2		2	63148	11/06/20 14:09	KGQ6	ELLE

Client Sample ID: TB204-36**Lab Sample ID: 410-17173-12****Date Collected: 10/13/20 11:00****Matrix: Water****Date Received: 10/14/20 10:43**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 13:17	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 03:37	AC3T	ELLE

Client Sample ID: GW013-204**Lab Sample ID: 410-17173-13****Date Collected: 10/13/20 10:26****Matrix: Water****Date Received: 10/14/20 10:43**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 17:42	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 03:54	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 21:09	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57800	10/23/20 08:23	UAMX	ELLE
Dissolved	Analysis	6010C		1	57876	10/23/20 10:54	SB	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:26	UCIG	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 10:38	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 15:31	UPJE	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:39	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 01:42	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:10	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW098-204

Lab Sample ID: 410-17173-14

Date Collected: 10/13/20 12:11

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 18:05	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 04:45	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 21:43	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:29	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 20:50	UCIG	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:44	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 01:48	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:11	KGQ6	ELLE

Client Sample ID: GW097-204

Lab Sample ID: 410-17173-15

Date Collected: 10/13/20 14:21

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 18:27	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 05:02	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 22:17	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:32	UCIG	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 10:31	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 15:24	UPJE	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:17	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 00:40	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:15	KGQ6	ELLE

Client Sample ID: TB204-37

Lab Sample ID: 410-17173-16

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 13:39	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 05:19	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW023-204

Lab Sample ID: 410-17173-17

Date Collected: 10/13/20 13:30

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 18:49	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 05:36	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 22:51	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55485	10/17/20 23:08	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:35	UCIG	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 10:28	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 15:21	UPJE	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:20	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 01:29	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:16	KGQ6	ELLE

Client Sample ID: GW103-204

Lab Sample ID: 410-17173-18

Date Collected: 10/13/20 13:50

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 19:11	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 05:53	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 23:25	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55485	10/18/20 00:16	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:44	UCIG	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 10:24	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 15:18	UPJE	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:27	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 01:22	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:17	KGQ6	ELLE

Client Sample ID: GW104-204

Lab Sample ID: 410-17173-19

Date Collected: 10/13/20 14:15

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 19:33	NSK7	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW104-204

Lab Sample ID: 410-17173-19

Date Collected: 10/13/20 14:15

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 06:10	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/17/20 18:01	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:48	UCIG	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 10:21	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 15:15	UPJE	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:32	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 02:01	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:18	KGQ6	ELLE

Client Sample ID: TB204-40

Lab Sample ID: 410-17173-20

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58334	10/26/20 14:01	NSK7	ELLE
Total/NA	Prep	8011			56564	10/20/20 20:27	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/22/20 06:27	AC3T	ELLE

Client Sample ID: GW070-204

Lab Sample ID: 410-17173-21

Date Collected: 10/13/20 10:45

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58674	10/26/20 23:47	MJ8R	ELLE
Total/NA	Prep	8011			56575	10/20/20 20:57	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/21/20 21:57	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/18/20 01:58	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55485	10/18/20 02:16	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:51	UCIG	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 10:35	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 15:27	UPJE	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:40	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 00:27	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:19	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Client Sample ID: GW070-604

Lab Sample ID: 410-17173-22

Date Collected: 10/13/20 10:45

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58674	10/27/20 00:07	MJ8R	ELLE
Total/NA	Prep	8011			56575	10/20/20 20:57	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/21/20 22:15	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/18/20 02:33	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55485	10/18/20 02:50	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54955	10/15/20 19:18	UJLA	ELLE
Dissolved	Analysis	6010C		1	57138	10/21/20 23:54	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/15/20 08:06	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 19:33	UCIG	ELLE
Total/NA	Prep	3020A			54841	10/15/20 13:47	UJLA	ELLE
Total/NA	Analysis	6020A		1	55656	10/16/20 17:22	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 00:33	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:23	KGQ6	ELLE

Client Sample ID: GW071-204

Lab Sample ID: 410-17173-23

Date Collected: 10/13/20 10:30

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58674	10/27/20 00:27	MJ8R	ELLE
Total/NA	Prep	8011			56575	10/20/20 20:57	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/21/20 22:32	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55485	10/18/20 03:41	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			54628	10/15/20 07:56	UJL8	ELLE
Dissolved	Analysis	6010C		1	54952	10/15/20 16:49	UCIG	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55235	10/16/20 10:11	UPJE	ELLE
Total Recoverable	Prep	3005A			54230	10/15/20 02:04	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55684	10/18/20 15:05	UPJE	ELLE
Total/NA	Prep	3020A			54751	10/15/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	56783	10/20/20 19:22	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	55319	10/16/20 02:08	JB	ELLE
Total/NA	Analysis	353.2		1	63148	11/06/20 14:24	KGQ6	ELLE

Client Sample ID: TB204-41

Lab Sample ID: 410-17173-24

Date Collected: 10/13/20 11:00

Matrix: Water

Date Received: 10/14/20 10:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58674	10/26/20 23:27	MJ8R	ELLE
Total/NA	Prep	8011			56575	10/20/20 20:57	K2IL	ELLE
Total/NA	Analysis	8011		1	57087	10/21/20 22:48	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17173-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-17173-1	GW085-204	Water	10/13/20 08:35	10/14/20 10:43	
410-17173-2	GW085-604	Water	10/13/20 08:35	10/14/20 10:43	
410-17173-3	GW086-204	Water	10/13/20 09:30	10/14/20 10:43	
410-17173-4	TB204-39	Water	10/13/20 11:00	10/14/20 10:43	
410-17173-5	GW087-204	Water	10/13/20 09:50	10/14/20 10:43	
410-17173-6	GW089-204	Water	10/13/20 12:35	10/14/20 10:43	
410-17173-7	GW090-204	Water	10/13/20 12:10	10/14/20 10:43	
410-17173-8	TB204-38	Water	10/13/20 11:00	10/14/20 10:43	
410-17173-9	GW074-204	Water	10/12/20 08:41	10/14/20 10:43	
410-17173-10	GW073-204	Water	10/12/20 10:51	10/14/20 10:43	
410-17173-11	GW003-204	Water	10/13/20 08:03	10/14/20 10:43	
410-17173-12	TB204-36	Water	10/13/20 11:00	10/14/20 10:43	
410-17173-13	GW013-204	Water	10/13/20 10:26	10/14/20 10:43	
410-17173-14	GW098-204	Water	10/13/20 12:11	10/14/20 10:43	
410-17173-15	GW097-204	Water	10/13/20 14:21	10/14/20 10:43	
410-17173-16	TB204-37	Water	10/13/20 11:00	10/14/20 10:43	
410-17173-17	GW023-204	Water	10/13/20 13:30	10/14/20 10:43	
410-17173-18	GW103-204	Water	10/13/20 13:50	10/14/20 10:43	
410-17173-19	GW104-204	Water	10/13/20 14:15	10/14/20 10:43	
410-17173-20	TB204-40	Water	10/13/20 11:00	10/14/20 10:43	
410-17173-21	GW070-204	Water	10/13/20 10:45	10/14/20 10:43	
410-17173-22	GW070-604	Water	10/13/20 10:45	10/14/20 10:43	
410-17173-23	GW071-204	Water	10/13/20 10:30	10/14/20 10:43	
410-17173-24	TB204-41	Water	10/13/20 11:00	10/14/20 10:43	

Eurofins Lancaster Laboratories Env, LLC



410-17173 Chain of Custody

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-085-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Hg, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW085-204	10-13-2020	0835	10	3	—	2	1	1*	1	1	1				
2	GW085-604	10-13-2020	0835	10	3	—	2	1	1*	1	1	1				
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Beguy*

RELINQUISHED BY: *G. Beguy* DATE: 10-13-2020 TIME: 1745

Printed Name and Signature: *G. Beguy*

Printed Name and Signature: *G. Beguy*

Printed Name and Signature: *G. Beguy*

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5530

RECEIVED BY: *Wesley Miller* DATE: 10/14/2020 TIME: 1039

Printed Name and Signature: *Wesley Miller*

Printed Name and Signature: *Wesley Miller*

Printed Name and Signature: *Wesley Miller*

qfm

KAM

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-086-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Cu, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	COMMENTS	
1	GW086-204	10-13-2020	0930	10	3	—	2	1	1*	1	1	1		 10-13-2020	
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begay</i>				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5530											
RELINQUISHED BY: _____ DATE: _____ TIME: _____				RECEIVED BY: _____ DATE: _____ TIME: _____											
Printed Name and Signature: <i>Gabeston Begay</i> <i>W. Miller</i> 10-13-2020 1745				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: <i>Wesley Miller</i> 10/14/2020 1039											

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-39

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

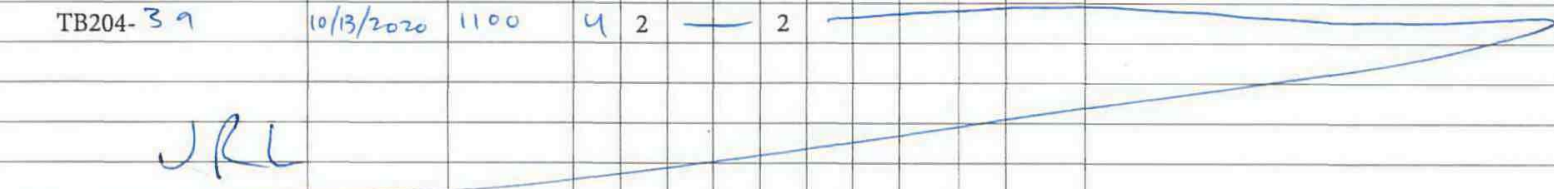
YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	(2250C) VOCs	(2250C) BTEX	(2250C) BTEXN	(2250C) EDB	(2250C) Total As, Pb, Cu, K, Na, Mg	(2250C) Dissolved Fe, Mn	(2250C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(353.2) Alkalinity (Total, Carbonate, and Bicarbonate)		
1	TB204-39	10/13/2020	1100	4	2	—	2								
2															
3															
4	JRL														
5															

Associated with:
GW085-204
GW085-604
GW086-204

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5530

RELINQUISHED BY: J Livingston

DATE: 10/13/2020

TIME: 1745

Printed Name and Signature: J Livingston

RECEIVED BY: Wesley Miller

DATE: 10/14/2020

TIME: 1639

Printed Name and Signature: Wesley Miller

Page 115 of 135

12/18/2020 (Rev. 1)

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

F-2-944

March 2021

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-087-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS	
				Total Number of Bottles	VOCs	BTEX	BTEXN	(B260C)	ED8	(B011)	Total (As, Pb, Cd, Cr, Mn, Hg)	Dissolved Fe, Mn (6020A/6010C)	(6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)		Alkalinity (Total, Carbonate and Bicarbonate) (3542.20B)
1	GW087-204	10-13-2020	0950	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *a. Beggs*

COURIER AND SHIPPING NUMBER: FedEx *8155 2826 5471*

TB204- *38*

RELINQUISHED BY: DATE: TIME:

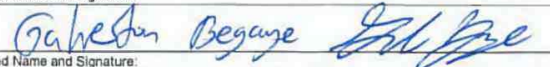
RECEIVED BY: DATE: TIME:

Printed Name and Signature: *Talbert Beggs* *Talbert Beggs* 10-13-2020 1145

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature: *Nicole Ruff* *nr* 10/14/20 1032

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-089-204					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						QUARTER: 4 (Oct-Dec)					
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs	BTEX	BTEXN	EDB	Total (As, Pb, Cd, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate and Bicarbonate)	Carbon Dioxide	(RSC-175) Methane	COMMENTS	
1	GW089-204	10-13-2020	1235	10	3	✓		2	1	1*	1	1	1				 10-13-2020
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): 										COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5471							
RELINQUISHED BY:										RECEIVED BY:							
Printed Name and Signature: 										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature:							
Printed Name and Signature:										Printed Name and Signature: 							

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-090-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of Bottles	VOCs (B260C)	BTEX (B260C)	BTEXN (B260C)	ED8 (B011)	Total (As, Pb, Cd, Cu, Ni, Mg) (B020A/B010C)	Dissolved Fe, Mn (B010C)	Chloride, bromide, sulfate (B010C)	Nitrate-Nitrite (B55.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (B542320B)	Carbon Dioxide (RSK-175)		Methane (RSK-175)
1	GW090-204	10-13-2020	1210	10	3	—	2	1	1*	1	1	1				
2																
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4																
5																
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): G-Begaye

RELINQUISHED BY: DATE: TIME:

PRINTED NAME AND SIGNATURE: G. Weston Begaye 10-13-2020 1745

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5471

RECEIVED BY: DATE: TIME:

PRINTED NAME AND SIGNATURE: Nicole Ruff 10/14/20 1032

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400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

COC NUMBER
COC-TB204-38

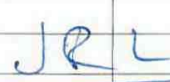
YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS	
				Total Number of Bottles	VOCs (4250C)	BTEX (4250C)	BTEXN (4250C)	EDB (4011)	Total As, Pb, Cd, K, Na, Mg (6010)	Disinfect Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204-38	10/13/2020	1100	4	2			2								
2																
3																
4																
5																

Associated with:
GW087-204
GW089-204
GW090-204

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5471

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
J Livingston	10/13/2020	1745			

Printed Name and Signature: Nicole Ruff

10/14/20 1032

CEM

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12/18/2020 (Rev. 1)

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

F-2-948

March 2021

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-074-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lemond: tlemond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)							
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs	(BTEX)	(BTEXN)	(BTEXN)	(BTEXN)	(BTEXN)	(BTEXN)	(BTEXN)	COMMENTS				
1	GW074-204	10-12-2020	0841	10	3	—	2	1	1*	1	1	1					
2																	
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4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
Pump SN: 1807B-710 D. Schmeelk TB204-36 FedEx 8155 2826 5493																	
SAMPLER(S):				COURIER AND SHIPPING NUMBER:													
RELINQUISHED BY:				DATE				TIME				RECEIVED BY:		DATE		TIME	
Printed Name and Signature:				DATE				TIME				Printed Name and Signature:		DATE		TIME	
D. Schmeelk				10-13-2020				1745									
Printed Name and Signature:				DATE				TIME				Printed Name and Signature:		DATE		TIME	
Printed Name and Signature:				DATE				TIME				Printed Name and Signature:		DATE		TIME	
												Wesley Miller		10/14/2020		1637	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-073-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

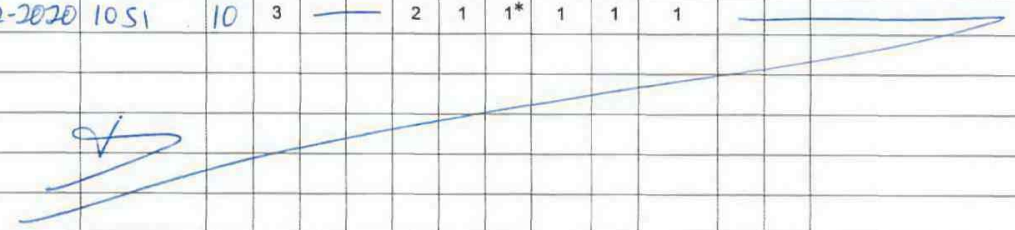
LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW073-204	10-12-2020	1051	10	3			2	1	1*	1	1	1			
2																
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 1807B-710

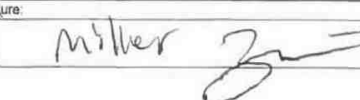
SAMPLER(S): D. Schmeelk

RELINQUISHED BY: D. Schmeelk 

DATE: 10-13-2020

TIME: 1745

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5493

RECEIVED BY: Wesley Miller 

DATE: 10/14/2020

TIME: 1037

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-003-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smyth: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RISK-175)	Methane (RISK-175)	
1	GW003-204	10-13-2020	0803	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 1807B-710

TB204-36

SAMPLER(S): Dylan Schmeelk

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5493

RELINQUISHED BY: D. Schmeelk

DATE: 10-13-2020

TIME: 1745

Printed Name and Signature: D. Schmeelk

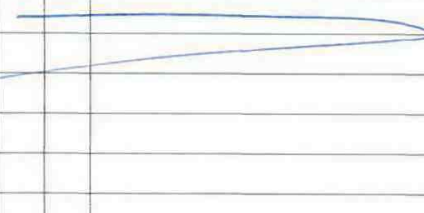
Printed Name and Signature: Wesley Miller

DATE: 10/14/2020

TIME: 1037

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-36									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		QUARTER: 4									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-36	10/13/2020	1100	4	2	—	2								
2															
3															
4	JRL														
5															
Associated with: GW073-204 GW074-204 GW003-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5493											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston John 2				10/13/2020		1745		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Wesley Miller				10/14/2020		1037	

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-013-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamon: tlamon@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)				
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Ni, Mg) (6020A/5010C)	Dissolved Fe, Mn (6020A/5010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (5M2320B)	(RSK-175) Methane (RSK-175)	COMMENTS	
1	GW013-204	10-13-2020	1026	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 180TB-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk DATE: 10-13-2020 TIME: 1745 COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5482 RECEIVED BY: Chris Stief DATE: 10-14-20 TIME: 1030 TB204- 37																

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-098-204									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4 (Oct-Dec)									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW098-204	10-13-2020	1211	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): Pump SN: 1807B-710 D. Schmeelk								COURIER AND SHIPPING NUMBER: FedEx 855 2826 5482 TB204- 31							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
D. Schmeelk				10-13-2020		1145									
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
								Chris Stief				10-14-20		10:30	

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-097-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)							
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258															
				ANALYSIS REQUIRED (Specify number of bottles)													
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	BTEXN	(B260C)	EDB	Total (As, Pb, Cd, Cr, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(RSK-175) Methane	COMMENTS
1	GW097-204	10-13-2020	1421	10	3	—	2	1	1*	1	1	1	1	1	1	1	
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk <i>[Signature]</i> DATE: 10-13-2020 TIME: 1745 COURIER AND SHIPPING NUMBER: FedEx 8155-2826 5482 RECEIVED BY: Chris Stief <i>[Signature]</i> DATE: 10-14-20 TIME: 10:50 TB204- 37																	

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204- 37

YEAR: 2020
QUARTER: 4

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (2250C)	BTEX (2250C)	BTEXN (2250C)	EDB (2011)	Total As,Pb,Cd,K,Na,Mg (5020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204-37	10/13/2020	1700	4	2			2								
2																
3																
4																
5	JRL															

Associated with:
GW013-204
GW097-204
GW018-204

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5482

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: J Livingston	10/13/2020	1745	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: Chris Stief	10-14-20	1030

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-023-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (35423.08)	Carbon Dioxide (8SK-175)	Methane (8SK-175)		
1	GW023-204	10-13-2020	1330	10	3	—	2	1	1*	1	1	1	OB 10-13-2020			
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
G. Begaye

RELINQUISHED BY:
G. Begaye

DATE
10-13-2020

TIME
1745

COURIER AND SHIPPING NUMBER:
FedEx 8155 2826 5460

RECEIVED BY:
Nicole Reiff

DATE
10/14/20

TIME
1030

qcm

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-104-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cu, Hg, Mn, Mg) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS
1	GW104-204	10-13-2020	1415	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i>								COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5460							
RELINQUISHED BY:								RECEIVED BY:							
DATE: 10-13-2020 TIME: 1745															
Printed Name and Signature: <i>Gaherlan Begaye</i>								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: <i>Nicole Ruff</i> 10/14/20 1030							

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400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-TB204-410

YEAR: 2020

QUARTER: 4

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/610C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-40	10/13/2020	1100	4	2	—	2								
2															
3															
4															
5	JRL														

Associated with:
GW023-204
GW103-204
GW104-204

SAMPLER(S): J Livingston

RELINQUISHED BY: J Livingston

DATE: 10/13/2020

TIME: 1745

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5960

RECEIVED BY: Nicole Reiff

DATE: 10/14/20

TIME: 1030

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-070-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Dissolved Fe, Mn (6020A/6010C) Total (As, Pb, Cd, Cr, Ni, Mn)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM2320B)	COMMENTS	
1	GW070-204	10-13-2020	1045	10	3	—	—	2	1	1*	1	1	1		
2	GW070-604	10-13-2020	1045	10	3	—	—	2	1	1*	1	1	1		
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i> RELINQUISHED BY: _____ DATE: _____ TIME: _____ Printed Name and Signature: <i>Gabeon Begaye</i> <i>[Signature]</i> 10-13-2020 1745 Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: <i>Nicole Reiff</i> <i>[Signature]</i> 10/14/20 1043															

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Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Amanda Smith: asmith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-071-204

YEAR:
2020

QUARTER:
4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS				
				Total Number of Bottles	VOCs	BTEX	(B260C)	BTEXN	(B260C)	EDB	(B011)	Total (As, Pb, Cd, Cr, Ni, Mn)	(B010C)	Disolved Fe, Mn	Chloride, bromide, sulfate		Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(SM2320B)
1	GW071-204	10-13-2020	1030	10	3	—	2	1	1*	1	1	1								
2																				
3																				
4																				
5																				
6																				

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
G. Begue

RELINQUISHED BY:
G. Begue

DATE
10-13-2020

TIME
1745

COURIER AND SHIPPING NUMBER:
FedEx 7717 8244 0304

RECEIVED BY:
Nicole Ruff

DATE
10/14/20

TIME
1043

Page 133 of 135

12/18/2020 (Rev. 1)

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

F-2-962

March 2021

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				COC-TB204-41			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020		QUARTER: 4			
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A, 6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS	
1	TB204-41	10/13/2020	1100	4	2			2						JRL	
2															
3															
4															
5															
Associated with:															
GW070-204															
GW070-604															
GW071-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7717 8244 0304											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/13/2020	1745	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Ruff				10/14/20	1043				

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-17173-1

Login Number: 17173**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-17330-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/17/2020 12:08:37 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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results through
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Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
11/17/2020 12:08:37 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Job ID: 410-17330-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17330-1

Receipt

The samples were received on 10/15/2020 10:46 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.7° C, 0.8° C, 1.0° C, 1.2° C and 1.4° C.

GC/MS VOA

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-58674 recovered above the upper control limit for Acetone and Tetrachloroethene. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW063-204 (410-17330-17), GW243-425-204 (410-17330-18) and GW015-204 (410-17330-19). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW222-204 (410-17330-1), GW223-204 (410-17330-2), GW224-204 (410-17330-3), TB204-44 (410-17330-4), GW213-204 (410-17330-5), GW214-204 (410-17330-6), GW215-204 (410-17330-7), TB204-45 (410-17330-8), GW004-204 (410-17330-9), GW100-204 (410-17330-10), GW099-204 (410-17330-11), TB204-46 (410-17330-12), GW064-204 (410-17330-13), GW247-450-204 (410-17330-14), GW244-445-204 (410-17330-15), TB204-43 (410-17330-16) and TB204-42 (410-17330-20). The requested target analyte list contains 2-Chloroethyl vinyl ether, Acrolein and Acrylonitrile, which are acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The response for a target analyte(s) in the initial and/or continuing calibration verification marginally exceeds the DoD acceptance criteria biased high for Bromomethane, Chloroethane, Chloromethane and Vinyl chloride. Due to the marginal nature of the outlier(s), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The continuing calibration verification (CCV) associated with batch 410-56900 recovered above the upper control limit for Bromide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW222-204

Lab Sample ID: 410-17330-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	61	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	49	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	63		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.9		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	30		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	95		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	95		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	3.1		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: GW223-204

Lab Sample ID: 410-17330-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	35	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	55	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	54		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.9		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	29		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW224-204

Lab Sample ID: 410-17330-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	28	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	34		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.2		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00093	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.17		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-44

Lab Sample ID: 410-17330-4

No Detections.

Client Sample ID: GW213-204

Lab Sample ID: 410-17330-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.1	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Chloride	40	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	32	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	46		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.7		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	28		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00040	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.89		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW214-204

Lab Sample ID: 410-17330-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	43	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	39	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	47		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.9		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	29		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Lead	0.00068		0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW215-204

Lab Sample ID: 410-17330-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	10	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	34		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	4.2		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.0		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.00090	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW215-204 (Continued)

Lab Sample ID: 410-17330-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-45

Lab Sample ID: 410-17330-8

No Detections.

Client Sample ID: GW004-204

Lab Sample ID: 410-17330-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	35	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	45		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.2		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00095	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.0		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW100-204

Lab Sample ID: 410-17330-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	11	J1 D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	34		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.6		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	19		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	99		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	99		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW099-204

Lab Sample ID: 410-17330-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.25	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	22	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	38	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	41		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW099-204 (Continued)

Lab Sample ID: 410-17330-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	5.6		0.10	0.075	0.040	mg/L	1		6010C	Total
Potassium	2.4		0.50	0.38	0.20	mg/L	1		6010C	Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Recoverable
Bicarbonate Alkalinity as CaCO ₃	96		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	96		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.95		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-46

Lab Sample ID: 410-17330-12

No Detections.

Client Sample ID: GW064-204

Lab Sample ID: 410-17330-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	430	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
1,2-Dichloropropane	4.3	J D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	140	D	25	5.0	1.5	ug/L	5		8260C DOD	Total/NA
Acetone	26	J D	100	10	3.5	ug/L	5		8260C DOD	Total/NA
Ethylbenzene	1200	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
Isopropylbenzene	210	D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
m&p-Xylene	2700	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
Naphthalene	160	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
n-Butylbenzene	20	J D M	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
N-Propylbenzene	120	D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
o-Xylene	1400	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
p-Isopropyltoluene	71	D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
sec-Butylbenzene	21	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Toluene	430	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Xylenes, Total	4100		30	10	7.0	ug/L	5		8260C DOD	Total/NA
Benzene - DL	3700	D	50	25	10	ug/L	50		8260C DOD	Total/NA
Chloride	47	D	8.0	6.0	4.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Calcium	150		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	23		0.10	0.075	0.040	mg/L	1		6010C	Recoverable
Potassium	5.9		0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	95		1.0	0.50	0.24	mg/L	1		6010C	Recoverable
Iron	6.2		0.21	0.10	0.041	mg/L	1		6010C	Total
Manganese	8.0	J1	0.010	0.0052	0.0031	mg/L	1		6010C	Recoverable
Arsenic	0.0028		0.0020	0.0016	0.00068	mg/L	1		6020A	Dissolved
Lead	0.00051		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	570		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	570		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.083	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW247-450-204

Lab Sample ID: 410-17330-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	49		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	6.4		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO3	160		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	160		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.50		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW244-445-204

Lab Sample ID: 410-17330-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.74	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	110	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	280	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	150		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	21		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.7		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	59		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00083	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.000081	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	3.8		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: TB204-43

Lab Sample ID: 410-17330-16

No Detections.

Client Sample ID: GW063-204

Lab Sample ID: 410-17330-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	260	D	50	20	10	ug/L	10		8260C DOD	Total/NA
1,2-Dichloroethane	3.6	J D M	10	5.0	3.0	ug/L	10		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	76	D	50	10	3.0	ug/L	10		8260C DOD	Total/NA
4-Methyl-2-pentanone	37	J D	100	10	5.0	ug/L	10		8260C DOD	Total/NA
Ethylbenzene	1000	D	10	8.0	4.0	ug/L	10		8260C DOD	Total/NA
Isopropylbenzene	190	D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
m&p-Xylene	2000	D	50	20	10	ug/L	10		8260C DOD	Total/NA
Naphthalene	97	D	50	20	10	ug/L	10		8260C DOD	Total/NA
n-Butylbenzene	8.2	J D M	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
N-Propylbenzene	79	D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
o-Xylene	1000	D	10	8.0	4.0	ug/L	10		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW063-204 (Continued)

Lab Sample ID: 410-17330-17

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	33	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
sec-Butylbenzene	14	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
Toluene	1700	D	10	5.0	2.0	ug/L	10		8260C DOD	Total/NA
Xylenes, Total	3000		60	20	14	ug/L	10		8260C DOD	Total/NA
Benzene - DL	3900	D	100	50	20	ug/L	100		8260C DOD	Total/NA
Chloride	46	D	8.0	6.0	4.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Sulfate	2.5	J D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	140		0.20	0.15	0.096	mg/L	1		6010C	Total
										Recoverable
Magnesium	22		0.10	0.075	0.040	mg/L	1		6010C	Total
										Recoverable
Potassium	3.8		0.50	0.38	0.20	mg/L	1		6010C	Total
										Recoverable
Sodium	42		1.0	0.50	0.24	mg/L	1		6010C	Total
										Recoverable
Iron	4.9		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	5.7		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0026		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00022	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	430		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	430		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW243-425-204

Lab Sample ID: 410-17330-18

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Ethylene Dibromide (1C)	0.042	M	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	23	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	35	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	45		0.20	0.15	0.096	mg/L	1		6010C	Total
										Recoverable
Magnesium	6.3		0.10	0.075	0.040	mg/L	1		6010C	Total
										Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1		6010C	Total
										Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1		6010C	Total
										Recoverable
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.000079	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.076	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW015-204

Lab Sample ID: 410-17330-19

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	20	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	28	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	43	J1	0.20	0.15	0.096	mg/L	1		6010C	Total
										Recoverable
Magnesium	5.1	J1	0.10	0.075	0.040	mg/L	1		6010C	Total
										Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW015-204 (Continued)

Lab Sample ID: 410-17330-19

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Potassium	2.2	J1	0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	20	J1	1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Manganese	0.0041	J	0.010	0.0052	0.0031	mg/L	1		6010C	Recoverable Dissolved
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.33		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-42

Lab Sample ID: 410-17330-20

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW222-204

Lab Sample ID: 410-17330-1

Date Collected: 10/14/20 14:50

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 15:39	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 15:39	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 15:39	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 15:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 15:39	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 15:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 15:39	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 15:39	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 15:39	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 15:39	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 15:39	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 15:39	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 15:39	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 15:39	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 15:39	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 15:39	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 15:39	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 15:39	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW222-204

Lab Sample ID: 410-17330-1

Date Collected: 10/14/20 14:50

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 15:39	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 15:39	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 15:39	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 15:39	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:39	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 15:39	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 15:39	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 15:39	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/27/20 15:39	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/27/20 15:39	1
Dibromofluoromethane (Surr)	104		80 - 119		10/27/20 15:39	1
Toluene-d8 (Surr)	99		89 - 112		10/27/20 15:39	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/24/20 23:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	71		46 - 136	10/24/20 07:08	10/24/20 23:34	1
1,1,2,2-Tetrachloroethane (2C)	67		46 - 136	10/24/20 07:08	10/24/20 23:34	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 12:31	5
Chloride	61	D	20	15	10	mg/L		10/17/20 19:42	50
Sulfate	49	D	5.0	4.5	1.5	mg/L		10/17/20 18:48	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	63		0.20	0.15	0.096	mg/L		10/22/20 14:38	1
Magnesium	7.9		0.10	0.075	0.040	mg/L		10/22/20 14:38	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/23/20 15:57	1
Sodium	30		1.0	0.50	0.24	mg/L		10/22/20 14:38	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U Q	0.21	0.10	0.041	mg/L		10/21/20 09:47	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW222-204

Lab Sample ID: 410-17330-1

Date Collected: 10/14/20 14:50

Matrix: Water

Date Received: 10/15/20 10:46

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U J1 Q	0.010	0.0052	0.0031	mg/L		10/21/20 09:47	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:22	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:22	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	95		8.0	6.0	8.0	mg/L		10/16/20 21:47	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 21:47	1
Total Alkalinity as CaCO ₃ to pH 4.5	95		8.0	6.0	8.0	mg/L		10/16/20 21:47	1
Nitrate Nitrite as N	3.1		0.20	0.18	0.080	mg/L		11/07/20 11:46	2

Client Sample ID: GW223-204

Lab Sample ID: 410-17330-2

Date Collected: 10/14/20 14:30

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:02	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 16:02	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:02	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:02	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:02	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:02	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:02	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 16:02	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 16:02	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 16:02	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 16:02	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 16:02	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 16:02	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW223-204

Lab Sample ID: 410-17330-2

Date Collected: 10/14/20 14:30

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 16:02	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 16:02	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 16:02	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 16:02	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:02	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:02	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:02	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 16:02	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:02	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:02	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 16:02	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:02	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/27/20 16:02	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/27/20 16:02	1
Dibromofluoromethane (Surr)	104		80 - 119		10/27/20 16:02	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 16:02	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/24/20 23:51	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW223-204

Lab Sample ID: 410-17330-2

Date Collected: 10/14/20 14:30

Matrix: Water

Date Received: 10/15/20 10:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	77		46 - 136	10/24/20 07:08	10/24/20 23:51	1
1,1,2,2-Tetrachloroethane (2C)	69		46 - 136	10/24/20 07:08	10/24/20 23:51	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 12:49	5
Chloride	35	D	20	15	10	mg/L		10/17/20 20:18	50
Sulfate	55	D	5.0	4.5	1.5	mg/L		10/17/20 20:00	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	54		0.20	0.15	0.096	mg/L		10/22/20 14:41	1
Magnesium	6.9		0.10	0.075	0.040	mg/L		10/22/20 14:41	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/23/20 16:00	1
Sodium	29		1.0	0.50	0.24	mg/L		10/22/20 14:41	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 18:41	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 18:41	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:24	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/16/20 21:54	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 21:54	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/16/20 21:54	1
Nitrate Nitrite as N	1.3		0.10	0.090	0.040	mg/L		11/07/20 11:47	1

Client Sample ID: GW224-204

Lab Sample ID: 410-17330-3

Date Collected: 10/14/20 14:10

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:23	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 16:23	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:23	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:23	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW224-204

Lab Sample ID: 410-17330-3

Date Collected: 10/14/20 14:10

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:23	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:23	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:23	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 16:23	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 16:23	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 16:23	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 16:23	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 16:23	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 16:23	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 16:23	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 16:23	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 16:23	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 16:23	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:23	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:23	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:23	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 16:23	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:23	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:23	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW224-204

Lab Sample ID: 410-17330-3

Date Collected: 10/14/20 14:10

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 16:23	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:23	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/27/20 16:23	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/27/20 16:23	1
Dibromofluoromethane (Surr)	103		80 - 119		10/27/20 16:23	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 16:23	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/25/20 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136	10/24/20 07:08	10/25/20 00:41	1
1,1,2,2-Tetrachloroethane (2C)	68		46 - 136	10/24/20 07:08	10/25/20 00:41	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 13:08	5
Chloride	11	D	2.0	1.5	1.0	mg/L		10/17/20 20:36	5
Sulfate	28	D	5.0	4.5	1.5	mg/L		10/17/20 20:36	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	34		0.20	0.15	0.096	mg/L		10/22/20 14:44	1
Magnesium	4.2		0.10	0.075	0.040	mg/L		10/22/20 14:44	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/23/20 16:03	1
Sodium	26		1.0	0.50	0.24	mg/L		10/22/20 14:44	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 18:44	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 18:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00093	J	0.0020	0.0016	0.00068	mg/L		10/20/20 20:20	1
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L		10/20/20 20:20	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/17/20 00:28	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/17/20 00:28	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/17/20 00:28	1
Nitrate Nitrite as N	0.17		0.10	0.090	0.040	mg/L		11/07/20 11:48	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-44

Lab Sample ID: 410-17330-4

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:50	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 13:50	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 13:50	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 13:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 13:50	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:50	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 13:50	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:50	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 13:50	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 13:50	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 13:50	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 13:50	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 13:50	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 13:50	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 13:50	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 13:50	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 13:50	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 13:50	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-44

Lab Sample ID: 410-17330-4

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 13:50	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:50	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 13:50	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 13:50	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:50	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 13:50	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 13:50	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 13:50	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/27/20 13:50	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/27/20 13:50	1
Dibromofluoromethane (Surr)	102		80 - 119		10/27/20 13:50	1
Toluene-d8 (Surr)	99		89 - 112		10/27/20 13:50	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/25/20 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136	10/24/20 07:08	10/25/20 00:58	1
1,1,2,2-Tetrachloroethane (2C)	71		46 - 136	10/24/20 07:08	10/25/20 00:58	1

Client Sample ID: GW213-204

Lab Sample ID: 410-17330-5

Date Collected: 10/14/20 13:30

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:46	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 16:46	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW213-204

Lab Sample ID: 410-17330-5

Date Collected: 10/14/20 13:30

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:46	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:46	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:46	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:46	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 16:46	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 16:46	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 16:46	1
Acetone	3.1	J	20	2.0	0.70	ug/L		10/27/20 16:46	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 16:46	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 16:46	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 16:46	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 16:46	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 16:46	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 16:46	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:46	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 16:46	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 16:46	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 16:46	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 16:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW213-204

Lab Sample ID: 410-17330-5

Date Collected: 10/14/20 13:30

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 16:46	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 16:46	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 16:46	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/27/20 16:46	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/27/20 16:46	1
Dibromofluoromethane (Surr)	103		80 - 119		10/27/20 16:46	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 16:46	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136	10/24/20 07:08	10/25/20 01:15	1
1,1,2,2-Tetrachloroethane (2C)	70		46 - 136	10/24/20 07:08	10/25/20 01:15	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 13:26	5
Chloride	40	D	20	15	10	mg/L		10/17/20 21:31	50
Sulfate	32	D	5.0	4.5	1.5	mg/L		10/17/20 21:13	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	46		0.20	0.15	0.096	mg/L		10/22/20 14:47	1
Magnesium	5.7		0.10	0.075	0.040	mg/L		10/22/20 14:47	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/23/20 16:06	1
Sodium	28		1.0	0.50	0.24	mg/L		10/22/20 14:47	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 18:48	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 18:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00068	J	0.0020	0.0016	0.00068	mg/L		10/20/20 20:22	1
Lead	0.00040	J	0.00050	0.00025	0.000071	mg/L		10/20/20 20:22	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L		10/17/20 00:22	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW213-204

Lab Sample ID: 410-17330-5

Date Collected: 10/14/20 13:30

Matrix: Water

Date Received: 10/15/20 10:46

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/17/20 00:22	1
Total Alkalinity as CaCO₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/17/20 00:22	1
Nitrate Nitrite as N	0.89		0.10	0.090	0.040	mg/L		11/07/20 11:50	1

Client Sample ID: GW214-204

Lab Sample ID: 410-17330-6

Date Collected: 10/14/20 13:10

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:08	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 17:08	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 17:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:08	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:08	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:08	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 17:08	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 17:08	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 17:08	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 17:08	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 17:08	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 17:08	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 17:08	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 17:08	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:08	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 17:08	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW214-204

Lab Sample ID: 410-17330-6

Date Collected: 10/14/20 13:10

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/27/20 17:08	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L	—	10/27/20 17:08	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/27/20 17:08	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/27/20 17:08	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/27/20 17:08	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/27/20 17:08	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/27/20 17:08	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/27/20 17:08	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L	—	10/27/20 17:08	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/27/20 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/27/20 17:08	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/27/20 17:08	1
Dibromofluoromethane (Surr)	105		80 - 119		10/27/20 17:08	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 17:08	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L	—	10/25/20 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	79		46 - 136	10/24/20 07:08	10/25/20 01:31	1
1,1,2,2-Tetrachloroethane (2C)	73		46 - 136	10/24/20 07:08	10/25/20 01:31	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	10/21/20 13:44	5
Chloride	43	D	20	15	10	mg/L	—	10/17/20 22:07	50
Sulfate	39	D	5.0	4.5	1.5	mg/L	—	10/17/20 21:49	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW214-204

Lab Sample ID: 410-17330-6

Date Collected: 10/14/20 13:10

Matrix: Water

Date Received: 10/15/20 10:46

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	47		0.20	0.15	0.096	mg/L		10/22/20 14:50	1
Magnesium	5.9		0.10	0.075	0.040	mg/L		10/22/20 14:50	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/23/20 16:09	1
Sodium	29		1.0	0.50	0.24	mg/L		10/22/20 14:50	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 18:51	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 18:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 20:24	1
Lead	0.00068		0.00050	0.00025	0.000071	mg/L		10/20/20 20:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/16/20 21:06	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 21:06	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/16/20 21:06	1
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L		11/07/20 11:51	1

Client Sample ID: GW215-204

Lab Sample ID: 410-17330-7

Date Collected: 10/14/20 12:45

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:30	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 17:30	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 17:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:30	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:30	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:30	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 17:30	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW215-204

Lab Sample ID: 410-17330-7

Date Collected: 10/14/20 12:45

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 17:30	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 17:30	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 17:30	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 17:30	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 17:30	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 17:30	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 17:30	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 17:30	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 17:30	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 17:30	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:30	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 17:30	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 17:30	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:30	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:30	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 17:30	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 17:30	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/27/20 17:30	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/27/20 17:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW215-204

Lab Sample ID: 410-17330-7

Date Collected: 10/14/20 12:45

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 119		10/27/20 17:30	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 17:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136	10/24/20 07:08	10/25/20 01:48	1
1,1,2,2-Tetrachloroethane (2C)	73		46 - 136	10/24/20 07:08	10/25/20 01:48	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/21/20 14:38	5
Chloride	10	D	2.0	1.5	1.0	mg/L		10/17/20 22:25	5
Sulfate	27	D	5.0	4.5	1.5	mg/L		10/17/20 22:25	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	34		0.20	0.15	0.096	mg/L		10/22/20 14:53	1
Magnesium	4.2		0.10	0.075	0.040	mg/L		10/22/20 14:53	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/23/20 16:12	1
Sodium	25		1.0	0.50	0.24	mg/L		10/22/20 14:53	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 18:54	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 18:54	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00090	J	0.0020	0.0016	0.00068	mg/L		10/20/20 20:26	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 20:26	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/16/20 21:28	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 21:28	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 21:28	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 11:54	1

Client Sample ID: TB204-45

Lab Sample ID: 410-17330-8

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:11	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-45

Lab Sample ID: 410-17330-8

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 14:11	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:11	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:11	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:11	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:11	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:11	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 14:11	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 14:11	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 14:11	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 14:11	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 14:11	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 14:11	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 14:11	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 14:11	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 14:11	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 14:11	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:11	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:11	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-45

Lab Sample ID: 410-17330-8

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 14:11	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:11	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:11	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 14:11	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:11	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/27/20 14:11	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/27/20 14:11	1
Dibromofluoromethane (Surr)	102		80 - 119		10/27/20 14:11	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 14:11	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/25/20 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	69		46 - 136	10/24/20 07:08	10/25/20 02:05	1
1,1,2,2-Tetrachloroethane (2C)	70		46 - 136	10/24/20 07:08	10/25/20 02:05	1

Client Sample ID: GW004-204

Lab Sample ID: 410-17330-9

Date Collected: 10/14/20 10:39

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:52	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 17:52	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 17:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW004-204

Lab Sample ID: 410-17330-9

Date Collected: 10/14/20 10:39

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:52	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:52	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 17:52	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 17:52	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 17:52	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 17:52	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 17:52	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 17:52	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 17:52	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 17:52	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 17:52	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 17:52	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 17:52	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 17:52	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 17:52	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 17:52	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 17:52	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 17:52	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW004-204

Lab Sample ID: 410-17330-9

Date Collected: 10/14/20 10:39

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 17:52	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 17:52	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/27/20 17:52	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/27/20 17:52	1
Dibromofluoromethane (Surr)	104		80 - 119		10/27/20 17:52	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 17:52	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/25/20 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	67		46 - 136	10/24/20 07:08	10/25/20 02:21	1
1,1,2,2-Tetrachloroethane (2C)	65		46 - 136	10/24/20 07:08	10/25/20 02:21	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/21/20 14:56	5
Chloride	20	D	2.0	1.5	1.0	mg/L		10/17/20 23:37	5
Sulfate	35	D	5.0	4.5	1.5	mg/L		10/17/20 23:37	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	45		0.20	0.15	0.096	mg/L		10/22/20 15:02	1
Magnesium	6.2		0.10	0.075	0.040	mg/L		10/22/20 15:02	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/23/20 16:15	1
Sodium	22		1.0	0.50	0.24	mg/L		10/22/20 15:02	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 18:58	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 18:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00095	J	0.0020	0.0016	0.00068	mg/L		10/20/20 20:28	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 20:28	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/16/20 21:41	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 21:41	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 21:41	1
Nitrate Nitrite as N	1.0		0.10	0.090	0.040	mg/L		11/07/20 11:55	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW100-204

Lab Sample ID: 410-17330-10

Date Collected: 10/14/20 12:23

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:15	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 18:15	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:15	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 18:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:15	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:15	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:15	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:15	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 18:15	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 18:15	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 18:15	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 18:15	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 18:15	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 18:15	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 18:15	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 18:15	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 18:15	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 18:15	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW100-204

Lab Sample ID: 410-17330-10

Date Collected: 10/14/20 12:23

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 18:15	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:15	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 18:15	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 18:15	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:15	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:15	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 18:15	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:15	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/27/20 18:15	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/27/20 18:15	1
Dibromofluoromethane (Surr)	104		80 - 119		10/27/20 18:15	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 18:15	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	61		46 - 136	10/24/20 07:08	10/25/20 02:38	1
1,1,2,2-Tetrachloroethane (2C)	60		46 - 136	10/24/20 07:08	10/25/20 02:38	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/21/20 15:14	5
Chloride	11	J1 D	2.0	1.5	1.0	mg/L		10/17/20 17:53	5
Sulfate	27	D	5.0	4.5	1.5	mg/L		10/17/20 17:53	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	34		0.20	0.15	0.096	mg/L		10/22/20 15:05	1
Magnesium	4.6		0.10	0.075	0.040	mg/L		10/22/20 15:05	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/23/20 16:19	1
Sodium	19		1.0	0.50	0.24	mg/L		10/22/20 15:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 19:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW100-204

Lab Sample ID: 410-17330-10

Date Collected: 10/14/20 12:23

Matrix: Water

Date Received: 10/15/20 10:46

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L	—	10/21/20 19:07	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	—	10/20/20 20:31	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/20/20 20:31	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	99		8.0	6.0	8.0	mg/L	—	10/16/20 21:13	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/16/20 21:13	1
Total Alkalinity as CaCO ₃ to pH 4.5	99		8.0	6.0	8.0	mg/L	—	10/16/20 21:13	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L	—	11/07/20 11:57	1

Client Sample ID: GW099-204

Lab Sample ID: 410-17330-11

Date Collected: 10/14/20 08:49

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/27/20 18:37	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/27/20 18:37	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/27/20 18:37	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/27/20 18:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/27/20 18:37	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/27/20 18:37	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/27/20 18:37	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/27/20 18:37	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/27/20 18:37	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/27/20 18:37	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 18:37	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/27/20 18:37	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/27/20 18:37	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/27/20 18:37	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/27/20 18:37	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 18:37	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW099-204

Lab Sample ID: 410-17330-11

Date Collected: 10/14/20 08:49

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 18:37	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 18:37	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 18:37	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 18:37	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 18:37	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:37	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 18:37	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 18:37	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:37	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:37	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Trichloroethene	0.25	J	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 18:37	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:37	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/27/20 18:37	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/27/20 18:37	1
Dibromofluoromethane (Surr)	105		80 - 119		10/27/20 18:37	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 18:37	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/25/20 02:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW099-204

Lab Sample ID: 410-17330-11

Date Collected: 10/14/20 08:49

Matrix: Water

Date Received: 10/15/20 10:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	63		46 - 136	10/24/20 07:08	10/25/20 02:55	1
1,1,2,2-Tetrachloroethane (2C)	62		46 - 136	10/24/20 07:08	10/25/20 02:55	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U Q	2.5	2.0	1.3	mg/L		10/21/20 15:33	5
Chloride	22	D	2.0	1.5	1.0	mg/L		10/18/20 00:50	5
Sulfate	38	D	5.0	4.5	1.5	mg/L		10/18/20 00:50	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	41		0.20	0.15	0.096	mg/L		10/22/20 15:08	1
Magnesium	5.6		0.10	0.075	0.040	mg/L		10/22/20 15:08	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/23/20 16:22	1
Sodium	21		1.0	0.50	0.24	mg/L		10/22/20 15:08	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 19:11	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 19:11	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/19/20 21:21	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:21	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	96		8.0	6.0	8.0	mg/L		10/17/20 00:35	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/17/20 00:35	1
Total Alkalinity as CaCO ₃ to pH 4.5	96		8.0	6.0	8.0	mg/L		10/17/20 00:35	1
Nitrate Nitrite as N	0.95		0.10	0.090	0.040	mg/L		11/07/20 11:58	1

Client Sample ID: TB204-46

Lab Sample ID: 410-17330-12

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:33	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 14:33	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:33	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-46

Lab Sample ID: 410-17330-12

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:33	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:33	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:33	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 14:33	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 14:33	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 14:33	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 14:33	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 14:33	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 14:33	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 14:33	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 14:33	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 14:33	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 14:33	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:33	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:33	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:33	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 14:33	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:33	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:33	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-46

Lab Sample ID: 410-17330-12

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 14:33	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:33	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/27/20 14:33	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/27/20 14:33	1
Dibromofluoromethane (Surr)	103		80 - 119		10/27/20 14:33	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 14:33	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/25/20 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	62		46 - 136	10/24/20 07:08	10/25/20 03:12	1
1,1,2,2-Tetrachloroethane (2C)	62		46 - 136	10/24/20 07:08	10/25/20 03:12	1

Client Sample ID: GW064-204

Lab Sample ID: 410-17330-13

Date Collected: 10/14/20 09:05

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.5	ug/L		10/27/20 19:42	5
1,1,2,2-Tetrachloroethane	2.5	U M	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
1,1,2-Trichloroethane	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
1,1-Dichloroethane	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
1,1-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
1,1-Dichloropropene	2.5	U	25	2.5	1.0	ug/L		10/27/20 19:42	5
1,2,3-Trichlorobenzene	5.0	U	25	5.0	2.0	ug/L		10/27/20 19:42	5
1,2,3-Trichloropropane	2.5	U M	25	2.5	1.0	ug/L		10/27/20 19:42	5
1,2,4-Trichlorobenzene	5.0	U	25	5.0	1.5	ug/L		10/27/20 19:42	5
1,2,4-Trimethylbenzene	430	D	25	10	5.0	ug/L		10/27/20 19:42	5
1,2-Dibromo-3-Chloropropane	5.0	U	25	5.0	1.5	ug/L		10/27/20 19:42	5
1,2-Dibromoethane	2.5	U M	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
1,2-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		10/27/20 19:42	5
1,2-Dichloroethane	2.5	U M	5.0	2.5	1.5	ug/L		10/27/20 19:42	5
1,2-Dichloropropane	4.3	J D	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
1,3,5-Trimethylbenzene	140	D	25	5.0	1.5	ug/L		10/27/20 19:42	5
1,3-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		10/27/20 19:42	5
1,3-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
1,4-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		10/27/20 19:42	5
2,2-Dichloropropane	2.5	U	5.0	2.5	1.5	ug/L		10/27/20 19:42	5
2-Butanone	5.0	U	50	5.0	1.5	ug/L		10/27/20 19:42	5
2-Chlorotoluene	2.5	U M	25	2.5	1.0	ug/L		10/27/20 19:42	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW064-204

Lab Sample ID: 410-17330-13

Date Collected: 10/14/20 09:05

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	5.0	U M	50	5.0	1.5	ug/L		10/27/20 19:42	5
4-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		10/27/20 19:42	5
4-Methyl-2-pentanone	5.0	U M	50	5.0	2.5	ug/L		10/27/20 19:42	5
Acetone	26	J D	100	10	3.5	ug/L		10/27/20 19:42	5
Acrolein	25	U	500	25	15	ug/L		10/27/20 19:42	5
Acrylonitrile	5.0	U	100	5.0	1.5	ug/L		10/27/20 19:42	5
Bromobenzene	2.5	U	25	2.5	1.0	ug/L		10/27/20 19:42	5
Bromochloromethane	2.5	U	25	2.5	1.0	ug/L		10/27/20 19:42	5
Bromodichloromethane	2.5	U M	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Bromoform	10	U	20	10	5.0	ug/L		10/27/20 19:42	5
Bromomethane	2.5	U Q	5.0	2.5	1.5	ug/L		10/27/20 19:42	5
Carbon disulfide	2.5	U	25	2.5	1.0	ug/L		10/27/20 19:42	5
Carbon tetrachloride	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Chlorobenzene	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Chloroethane	2.5	U Q	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Chloroform	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Chloromethane	2.5	U Q	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
cis-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Dibromochloromethane	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Dibromomethane	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Dichlorodifluoromethane	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Ethylbenzene	1200	D	5.0	4.0	2.0	ug/L		10/27/20 19:42	5
Hexachlorobutadiene	20	U	25	20	10	ug/L		10/27/20 19:42	5
Isopropylbenzene	210	D	25	2.5	1.0	ug/L		10/27/20 19:42	5
m&p-Xylene	2700	D	25	10	5.0	ug/L		10/27/20 19:42	5
Methyl tertiary butyl ether	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Methylene Chloride	2.5	U	5.0	2.5	1.5	ug/L		10/27/20 19:42	5
Naphthalene	160	D	25	10	5.0	ug/L		10/27/20 19:42	5
n-Butylbenzene	20	J D M	25	2.5	1.0	ug/L		10/27/20 19:42	5
N-Propylbenzene	120	D	25	2.5	1.0	ug/L		10/27/20 19:42	5
o-Xylene	1400	D	5.0	4.0	2.0	ug/L		10/27/20 19:42	5
p-Isopropyltoluene	71	D	25	2.5	1.0	ug/L		10/27/20 19:42	5
sec-Butylbenzene	21	J D	25	2.5	1.0	ug/L		10/27/20 19:42	5
Styrene	2.5	U M	25	2.5	1.0	ug/L		10/27/20 19:42	5
tert-Butylbenzene	5.0	U	25	5.0	1.5	ug/L		10/27/20 19:42	5
Tetrachloroethene	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Toluene	430	D	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Trichloroethene	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Vinyl acetate	10	U	50	10	3.5	ug/L		10/27/20 19:42	5
Vinyl chloride	2.5	U Q	5.0	2.5	1.0	ug/L		10/27/20 19:42	5
Xylenes, Total	4100		30	10	7.0	ug/L		10/27/20 19:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/27/20 19:42	5
4-Bromofluorobenzene (Surr)	114		85 - 114		10/27/20 19:42	5
Dibromofluoromethane (Surr)	101		80 - 119		10/27/20 19:42	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW064-204

Lab Sample ID: 410-17330-13

Date Collected: 10/14/20 09:05

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		89 - 112		10/27/20 19:42	5

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	3700	D	50	25	10	ug/L		10/27/20 20:04	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/27/20 20:04	50
4-Bromofluorobenzene (Surr)	97		85 - 114		10/27/20 20:04	50
Dibromofluoromethane (Surr)	101		80 - 119		10/27/20 20:04	50
Toluene-d8 (Surr)	98		89 - 112		10/27/20 20:04	50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U M J1	0.029	0.019	0.0097	ug/L		10/25/20 04:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	47	M J1	46 - 136	10/24/20 07:38	10/25/20 04:35	1
1,1,2,2-Tetrachloroethane (2C)	71	J1	46 - 136	10/24/20 07:38	10/25/20 04:35	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 11:21	5
Chloride	47	D	8.0	6.0	4.0	mg/L		10/28/20 11:52	20
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		10/17/20 11:21	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	150		0.20	0.15	0.096	mg/L		10/22/20 15:11	1
Magnesium	23		0.10	0.075	0.040	mg/L		10/22/20 15:11	1
Potassium	5.9		0.50	0.38	0.20	mg/L		10/23/20 16:31	1
Sodium	95		1.0	0.50	0.24	mg/L		10/22/20 15:11	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	6.2		0.21	0.10	0.041	mg/L		10/21/20 19:14	1
Manganese	8.0	J1	0.010	0.0052	0.0031	mg/L		10/23/20 10:21	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0028		0.0020	0.0016	0.00068	mg/L		10/19/20 21:23	1
Lead	0.00051		0.00050	0.00025	0.000071	mg/L		10/19/20 21:23	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	570		8.0	6.0	8.0	mg/L		10/16/20 20:40	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 20:40	1
Total Alkalinity as CaCO3 to pH 4.5	570		8.0	6.0	8.0	mg/L		10/16/20 20:40	1
Nitrate Nitrite as N	0.083	J	0.10	0.090	0.040	mg/L		11/07/20 12:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW247-450-204

Lab Sample ID: 410-17330-14

Date Collected: 10/14/20 11:30

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:59	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 18:59	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:59	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 18:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:59	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:59	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:59	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:59	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 18:59	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 18:59	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 18:59	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 18:59	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 18:59	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 18:59	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 18:59	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 18:59	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 18:59	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 18:59	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW247-450-204

Lab Sample ID: 410-17330-14

Date Collected: 10/14/20 11:30

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 18:59	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 18:59	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 18:59	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 18:59	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 18:59	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 18:59	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 18:59	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 18:59	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/27/20 18:59	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/27/20 18:59	1
Dibromofluoromethane (Surr)	104		80 - 119		10/27/20 18:59	1
Toluene-d8 (Surr)	99		89 - 112		10/27/20 18:59	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	71		46 - 136	10/24/20 07:38	10/25/20 05:09	1
1,1,2,2-Tetrachloroethane (2C)	62		46 - 136	10/24/20 07:38	10/25/20 05:09	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 07:44	5
Chloride	10	D	2.0	1.5	1.0	mg/L		10/17/20 07:44	5
Sulfate	27	D	5.0	4.5	1.5	mg/L		10/17/20 07:44	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	49		0.20	0.15	0.096	mg/L		10/22/20 15:14	1
Magnesium	6.4		0.10	0.075	0.040	mg/L		10/22/20 15:14	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/23/20 16:35	1
Sodium	26		1.0	0.50	0.24	mg/L		10/22/20 15:14	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 19:18	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW247-450-204

Lab Sample ID: 410-17330-14

Date Collected: 10/14/20 11:30

Matrix: Water

Date Received: 10/15/20 10:46

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L	—	10/21/20 19:18	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L	—	10/20/20 20:29	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/20/20 20:29	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	160		8.0	6.0	8.0	mg/L	—	10/16/20 21:35	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/16/20 21:35	1
Total Alkalinity as CaCO ₃ to pH 4.5	160		8.0	6.0	8.0	mg/L	—	10/16/20 21:35	1
Nitrate Nitrite as N	0.50		0.10	0.090	0.040	mg/L	—	11/07/20 13:00	1

Client Sample ID: GW244-445-204

Lab Sample ID: 410-17330-15

Date Collected: 10/14/20 08:25

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/27/20 19:21	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	10/27/20 19:21	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/27/20 19:21	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	10/27/20 19:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	10/27/20 19:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	10/27/20 19:21	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/27/20 19:21	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	10/27/20 19:21	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	10/27/20 19:21	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	10/27/20 19:21	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	10/27/20 19:21	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	10/27/20 19:21	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	10/27/20 19:21	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	10/27/20 19:21	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	10/27/20 19:21	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	10/27/20 19:21	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW244-445-204

Lab Sample ID: 410-17330-15

Date Collected: 10/14/20 08:25

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 19:21	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 19:21	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Chloroform	0.74	J	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 19:21	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 19:21	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 19:21	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 19:21	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 19:21	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 19:21	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 19:21	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 19:21	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 19:21	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 19:21	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/27/20 19:21	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/27/20 19:21	1
Dibromofluoromethane (Surr)	105		80 - 119		10/27/20 19:21	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 19:21	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 05:42	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW244-445-204

Lab Sample ID: 410-17330-15

Date Collected: 10/14/20 08:25

Matrix: Water

Date Received: 10/15/20 10:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	76		46 - 136	10/24/20 07:38	10/25/20 05:42	1
1,1,2,2-Tetrachloroethane (2C)	64		46 - 136	10/24/20 07:38	10/25/20 05:42	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 08:20	5
Chloride	110	D	20	15	10	mg/L		10/17/20 08:38	50
Sulfate	280	D	50	45	15	mg/L		10/17/20 08:38	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	150		0.20	0.15	0.096	mg/L		10/22/20 15:17	1
Magnesium	21		0.10	0.075	0.040	mg/L		10/22/20 15:17	1
Potassium	4.7		0.50	0.38	0.20	mg/L		10/23/20 16:38	1
Sodium	59		1.0	0.50	0.24	mg/L		10/22/20 15:17	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 19:21	1
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 19:21	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00083	J	0.0020	0.0016	0.00068	mg/L		10/20/20 20:14	1
Lead	0.000081	J	0.00050	0.00025	0.000071	mg/L		10/20/20 20:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/16/20 20:53	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 20:53	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/16/20 20:53	1
Nitrate Nitrite as N	3.8		0.20	0.18	0.080	mg/L		11/07/20 13:01	2

Client Sample ID: TB204-43

Lab Sample ID: 410-17330-16

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:55	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 14:55	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:55	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:55	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-43

Lab Sample ID: 410-17330-16

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:55	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:55	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:55	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 14:55	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 14:55	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 14:55	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 14:55	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 14:55	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 14:55	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 14:55	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 14:55	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 14:55	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 14:55	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:55	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 14:55	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 14:55	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 14:55	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 14:55	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 14:55	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-43

Lab Sample ID: 410-17330-16

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 14:55	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 14:55	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/27/20 14:55	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/27/20 14:55	1
Dibromofluoromethane (Surr)	103		80 - 119		10/27/20 14:55	1
Toluene-d8 (Surr)	99		89 - 112		10/27/20 14:55	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/25/20 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	73		46 - 136	10/24/20 07:38	10/25/20 05:59	1
1,1,2,2-Tetrachloroethane (2C)	71		46 - 136	10/24/20 07:38	10/25/20 05:59	1

Client Sample ID: GW063-204

Lab Sample ID: 410-17330-17

Date Collected: 10/14/20 10:05

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
1,1,1-Trichloroethane	5.0	U	10	5.0	3.0	ug/L		10/27/20 06:29	10
1,1,2,2-Tetrachloroethane	5.0	U M	10	5.0	2.0	ug/L		10/27/20 06:29	10
1,1,2-Trichloroethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
1,1-Dichloroethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
1,1-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
1,1-Dichloropropene	5.0	U	50	5.0	2.0	ug/L		10/27/20 06:29	10
1,2,3-Trichlorobenzene	10	U	50	10	4.0	ug/L		10/27/20 06:29	10
1,2,3-Trichloropropane	5.0	U M	50	5.0	2.0	ug/L		10/27/20 06:29	10
1,2,4-Trichlorobenzene	10	U	50	10	3.0	ug/L		10/27/20 06:29	10
1,2,4-Trimethylbenzene	260	D	50	20	10	ug/L		10/27/20 06:29	10
1,2-Dibromo-3-Chloropropane	10	U	50	10	3.0	ug/L		10/27/20 06:29	10
1,2-Dibromoethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
1,2-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		10/27/20 06:29	10
1,2-Dichloroethane	3.6	J D M	10	5.0	3.0	ug/L		10/27/20 06:29	10
1,2-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
1,3,5-Trimethylbenzene	76	D	50	10	3.0	ug/L		10/27/20 06:29	10
1,3-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		10/27/20 06:29	10
1,3-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
1,4-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		10/27/20 06:29	10
2,2-Dichloropropane	5.0	U	10	5.0	3.0	ug/L		10/27/20 06:29	10
2-Butanone	10	U	100	10	3.0	ug/L		10/27/20 06:29	10
2-Chlorotoluene	5.0	U M	50	5.0	2.0	ug/L		10/27/20 06:29	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW063-204

Lab Sample ID: 410-17330-17

Date Collected: 10/14/20 10:05

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	10	U M	100	10	3.0	ug/L		10/27/20 06:29	10
4-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		10/27/20 06:29	10
4-Methyl-2-pentanone	37	J D	100	10	5.0	ug/L		10/27/20 06:29	10
Acetone	20	U Q	200	20	7.0	ug/L		10/27/20 06:29	10
Acrolein	50	U	1000	50	30	ug/L		10/27/20 06:29	10
Acrylonitrile	10	U	200	10	3.0	ug/L		10/27/20 06:29	10
Bromobenzene	5.0	U	50	5.0	2.0	ug/L		10/27/20 06:29	10
Bromochloromethane	5.0	U	50	5.0	2.0	ug/L		10/27/20 06:29	10
Bromodichloromethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Bromoform	20	U	40	20	10	ug/L		10/27/20 06:29	10
Bromomethane	5.0	U	10	5.0	3.0	ug/L		10/27/20 06:29	10
Carbon disulfide	5.0	U	50	5.0	2.0	ug/L		10/27/20 06:29	10
Carbon tetrachloride	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Chlorobenzene	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Chloroethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Chloroform	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Chloromethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
cis-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
cis-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Dibromochloromethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Dibromomethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Dichlorodifluoromethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Ethylbenzene	1000	D	10	8.0	4.0	ug/L		10/27/20 06:29	10
Hexachlorobutadiene	40	U	50	40	20	ug/L		10/27/20 06:29	10
Isopropylbenzene	190	D	50	5.0	2.0	ug/L		10/27/20 06:29	10
m&p-Xylene	2000	D	50	20	10	ug/L		10/27/20 06:29	10
Methyl tertiary butyl ether	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Methylene Chloride	5.0	U	10	5.0	3.0	ug/L		10/27/20 06:29	10
Naphthalene	97	D	50	20	10	ug/L		10/27/20 06:29	10
n-Butylbenzene	8.2	J D M	50	5.0	2.0	ug/L		10/27/20 06:29	10
N-Propylbenzene	79	D	50	5.0	2.0	ug/L		10/27/20 06:29	10
o-Xylene	1000	D	10	8.0	4.0	ug/L		10/27/20 06:29	10
p-Isopropyltoluene	33	J D	50	5.0	2.0	ug/L		10/27/20 06:29	10
sec-Butylbenzene	14	J D	50	5.0	2.0	ug/L		10/27/20 06:29	10
Styrene	5.0	U M	50	5.0	2.0	ug/L		10/27/20 06:29	10
tert-Butylbenzene	10	U	50	10	3.0	ug/L		10/27/20 06:29	10
Tetrachloroethene	5.0	U Q	10	5.0	2.0	ug/L		10/27/20 06:29	10
Toluene	1700	D	10	5.0	2.0	ug/L		10/27/20 06:29	10
trans-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
trans-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Trichloroethene	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Trichlorofluoromethane	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Vinyl acetate	20	U	100	20	7.0	ug/L		10/27/20 06:29	10
Vinyl chloride	5.0	U	10	5.0	2.0	ug/L		10/27/20 06:29	10
Xylenes, Total	3000		60	20	14	ug/L		10/27/20 06:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/27/20 06:29	10
4-Bromofluorobenzene (Surr)	93		85 - 114		10/27/20 06:29	10
Dibromofluoromethane (Surr)	98		80 - 119		10/27/20 06:29	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW063-204

Lab Sample ID: 410-17330-17

Date Collected: 10/14/20 10:05

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		89 - 112		10/27/20 06:29	10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	3900	D	100	50	20	ug/L		10/27/20 06:50	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/27/20 06:50	100
4-Bromofluorobenzene (Surr)	91		85 - 114		10/27/20 06:50	100
Dibromofluoromethane (Surr)	99		80 - 119		10/27/20 06:50	100
Toluene-d8 (Surr)	94		89 - 112		10/27/20 06:50	100

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U M	0.029	0.019	0.0097	ug/L		10/25/20 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	60	M	46 - 136	10/24/20 07:38	10/25/20 06:16	1
1,1,2,2-Tetrachloroethane (2C)	77		46 - 136	10/24/20 07:38	10/25/20 06:16	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 09:51	5
Chloride	46	D	8.0	6.0	4.0	mg/L		10/28/20 12:09	20
Sulfate	2.5	J D	5.0	4.5	1.5	mg/L		10/17/20 09:51	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	140		0.20	0.15	0.096	mg/L		10/22/20 15:20	1
Magnesium	22		0.10	0.075	0.040	mg/L		10/22/20 15:20	1
Potassium	3.8		0.50	0.38	0.20	mg/L		10/23/20 16:41	1
Sodium	42		1.0	0.50	0.24	mg/L		10/22/20 15:20	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	4.9		0.21	0.10	0.041	mg/L		10/21/20 19:24	1
Manganese	5.7		0.010	0.0052	0.0031	mg/L		10/23/20 10:42	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0026		0.0020	0.0016	0.00068	mg/L		10/19/20 21:28	1
Lead	0.00022	J	0.00050	0.00025	0.000071	mg/L		10/19/20 21:28	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	430		8.0	6.0	8.0	mg/L		10/16/20 20:32	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 20:32	1
Total Alkalinity as CaCO3 to pH 4.5	430		8.0	6.0	8.0	mg/L		10/16/20 20:32	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 12:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW243-425-204

Lab Sample ID: 410-17330-18

Date Collected: 10/13/20 11:40

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:47	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 00:47	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:47	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:47	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:47	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:47	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:47	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 00:47	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 00:47	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 00:47	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/27/20 00:47	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 00:47	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 00:47	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 00:47	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:47	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 00:47	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 00:47	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW243-425-204

Lab Sample ID: 410-17330-18

Date Collected: 10/13/20 11:40

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:47	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 00:47	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 00:47	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 00:47	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 00:47	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 00:47	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 00:47	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 00:47	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/27/20 00:47	1
4-Bromofluorobenzene (Surr)	88		85 - 114		10/27/20 00:47	1
Dibromofluoromethane (Surr)	98		80 - 119		10/27/20 00:47	1
Toluene-d8 (Surr)	95		89 - 112		10/27/20 00:47	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.042	M	0.029	0.019	0.0096	ug/L		10/25/20 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136	10/24/20 07:08	10/25/20 04:02	1
1,1,2,2-Tetrachloroethane (2C)	67		46 - 136	10/24/20 07:08	10/25/20 04:02	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 10:09	5
Chloride	23	D	2.0	1.5	1.0	mg/L		10/17/20 10:09	5
Sulfate	35	D	5.0	4.5	1.5	mg/L		10/17/20 10:09	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	45		0.20	0.15	0.096	mg/L		10/19/20 14:52	1
Magnesium	6.3		0.10	0.075	0.040	mg/L		10/19/20 14:52	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/19/20 14:52	1
Sodium	26		1.0	0.50	0.24	mg/L		10/20/20 15:13	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 19:28	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW243-425-204

Lab Sample ID: 410-17330-18

Date Collected: 10/13/20 11:40

Matrix: Water

Date Received: 10/15/20 10:46

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U Q	0.010	0.0052	0.0031	mg/L		10/21/20 19:28	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L		10/19/20 21:25	1
Lead	0.000079	J	0.00050	0.00025	0.000071	mg/L		10/19/20 21:25	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/16/20 20:47	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 20:47	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/16/20 20:47	1
Nitrate Nitrite as N	0.076	J	0.10	0.090	0.040	mg/L		11/07/20 12:09	1

Client Sample ID: GW015-204

Lab Sample ID: 410-17330-19

Date Collected: 10/13/20 14:50

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 01:07	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 01:07	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 01:07	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 01:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 01:07	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 01:07	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 01:07	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 01:07	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 01:07	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 01:07	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 01:07	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/27/20 01:07	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 01:07	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 01:07	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW015-204

Lab Sample ID: 410-17330-19

Date Collected: 10/13/20 14:50

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 01:07	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 01:07	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 01:07	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 01:07	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 01:07	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 01:07	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 01:07	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 01:07	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 01:07	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 01:07	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 01:07	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 01:07	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/27/20 01:07	1
4-Bromofluorobenzene (Surr)	89		85 - 114		10/27/20 01:07	1
Dibromofluoromethane (Surr)	100		80 - 119		10/27/20 01:07	1
Toluene-d8 (Surr)	94		89 - 112		10/27/20 01:07	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 04:19	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW015-204

Lab Sample ID: 410-17330-19

Date Collected: 10/13/20 14:50

Matrix: Water

Date Received: 10/15/20 10:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	64		46 - 136	10/24/20 07:08	10/25/20 04:19	1
1,1,2,2-Tetrachloroethane (2C)	66		46 - 136	10/24/20 07:08	10/25/20 04:19	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/17/20 10:45	5
Chloride	20	D	2.0	1.5	1.0	mg/L		10/17/20 10:45	5
Sulfate	28	D	5.0	4.5	1.5	mg/L		10/17/20 10:45	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	43	J1	0.20	0.15	0.096	mg/L		10/22/20 13:56	1
Magnesium	5.1	J1	0.10	0.075	0.040	mg/L		10/22/20 13:56	1
Potassium	2.2	J1	0.50	0.38	0.20	mg/L		10/23/20 15:19	1
Sodium	20	J1	1.0	0.50	0.24	mg/L		10/22/20 13:56	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 20:20	1
Manganese	0.0041	J	0.010	0.0052	0.0031	mg/L		10/20/20 20:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 21:26	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:26	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/16/20 21:00	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 21:00	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/16/20 21:00	1
Nitrate Nitrite as N	0.33		0.10	0.090	0.040	mg/L		11/07/20 12:11	1

Client Sample ID: TB204-42

Lab Sample ID: 410-17330-20

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 15:17	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 15:17	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 15:17	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 15:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 15:17	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-42

Lab Sample ID: 410-17330-20

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 15:17	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 15:17	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 15:17	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 15:17	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 15:17	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 15:17	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 15:17	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 15:17	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 15:17	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 15:17	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/27/20 15:17	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 15:17	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 15:17	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 15:17	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 15:17	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 15:17	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 15:17	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 15:17	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 15:17	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-42

Lab Sample ID: 410-17330-20

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 15:17	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/27/20 15:17	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/27/20 15:17	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/27/20 15:17	1
Dibromofluoromethane (Surr)	103		80 - 119		10/27/20 15:17	1
Toluene-d8 (Surr)	98		89 - 112		10/27/20 15:17	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/25/20 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	72		46 - 136	10/24/20 07:38	10/25/20 06:32	1
1,1,2,2-Tetrachloroethane (2C)	71		46 - 136	10/24/20 07:38	10/25/20 06:32	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(81-118)	(85-114)	(80-119)	(89-112)
410-17330-1	GW222-204	102	96	104	99
410-17330-2	GW223-204	101	95	104	98
410-17330-3	GW224-204	103	95	103	98
410-17330-4	TB204-44	102	96	102	99
410-17330-5	GW213-204	103	95	103	98
410-17330-6	GW214-204	103	95	105	98
410-17330-7	GW215-204	102	95	105	98
410-17330-8	TB204-45	100	96	102	98
410-17330-9	GW004-204	101	94	104	98
410-17330-10	GW100-204	102	94	104	98
410-17330-11	GW099-204	102	94	105	98
410-17330-12	TB204-46	102	95	103	98
410-17330-13 - DL	GW064-204	101	97	101	98
410-17330-13	GW064-204	100	114	101	96
410-17330-14	GW247-450-204	102	94	104	99
410-17330-15	GW244-445-204	103	95	105	98
410-17330-16	TB204-43	101	96	103	99
410-17330-17	GW063-204	101	93	98	94
410-17330-17 - DL	GW063-204	100	91	99	94
410-17330-18	GW243-425-204	103	88	98	95
410-17330-19	GW015-204	102	89	100	94
410-17330-20	TB204-42	101	96	103	98
LCS 410-58674/5	Lab Control Sample	99	92	98	97
LCS 410-58674/7	Lab Control Sample	100	90	96	95
LCS 410-58940/5	Lab Control Sample	99	98	102	99
LCS 410-58940/7	Lab Control Sample	100	97	101	99
LCSD 410-58674/6	Lab Control Sample Dup	100	91	97	96
LCSD 410-58674/8	Lab Control Sample Dup	100	90	97	96
LCSD 410-58940/6	Lab Control Sample Dup	99	97	102	98
LCSD 410-58940/8	Lab Control Sample Dup	100	97	100	99
MB 410-58674/10	Method Blank	99	89	98	94
MB 410-58940/10	Method Blank	100	96	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-17330-1	GW222-204	71	67
410-17330-2	GW223-204	77	69
410-17330-3	GW224-204	74	68
410-17330-4	TB204-44	74	71
410-17330-5	GW213-204	75	70

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-17330-6	GW214-204	79	73
410-17330-7	GW215-204	75	73
410-17330-8	TB204-45	69	70
410-17330-9	GW004-204	67	65
410-17330-10	GW100-204	61	60
410-17330-11	GW099-204	63	62
410-17330-12	TB204-46	62	62
410-17330-13	GW064-204	47 M J1	71 J1
410-17330-13 MS	GW064-204	71 M	77 M
410-17330-14	GW247-450-204	71	62
410-17330-14 DU	GW247-450-204	81	69
410-17330-15	GW244-445-204	76	64
410-17330-16	TB204-43	73	71
410-17330-17	GW063-204	60 M	77
410-17330-18	GW243-425-204	75	67
410-17330-19	GW015-204	64	66
410-17330-20	TB204-42	72	71
LCS 410-58086/2-A	Lab Control Sample	71	71
LCS 410-58096/2-A	Lab Control Sample	74	72
LCSD 410-58086/3-A	Lab Control Sample Dup	74	69
LCSD 410-58096/3-A	Lab Control Sample Dup	75	72
MB 410-58086/1-A	Method Blank	70	68
MB 410-58096/1-A	Method Blank	75	72

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-58674/10

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/26/20 23:00	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:00	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:00	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:00	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 23:00	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/26/20 23:00	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/26/20 23:00	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/26/20 23:00	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/26/20 23:00	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/26/20 23:00	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/26/20 23:00	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 23:00	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/26/20 23:00	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-58674/10

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:00	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/26/20 23:00	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/26/20 23:00	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/26/20 23:00	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/26/20 23:00	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/26/20 23:00	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/26/20 23:00	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/26/20 23:00	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/26/20 23:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/26/20 23:00	1
4-Bromofluorobenzene (Surr)	89		85 - 114		10/26/20 23:00	1
Dibromofluoromethane (Surr)	98		80 - 119		10/26/20 23:00	1
Toluene-d8 (Surr)	94		89 - 112		10/26/20 23:00	1

Lab Sample ID: LCS 410-58674/5

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.8		ug/L		109	78 - 124
1,1,1-Trichloroethane	20.0	21.5		ug/L		108	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	71 - 121
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	80 - 119
1,1-Dichloroethane	20.0	21.1		ug/L		105	77 - 125
1,1-Dichloroethene	20.0	24.2		ug/L		121	71 - 131
1,1-Dichloropropene	20.0	22.0		ug/L		110	79 - 125
1,2,3-Trichlorobenzene	20.0	22.6		ug/L		113	69 - 129
1,2,3-Trichloropropane	20.0	20.3		ug/L		102	73 - 122
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	69 - 130
1,2,4-Trimethylbenzene	20.0	20.2		ug/L		101	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/L		92	62 - 128
1,2-Dibromoethane	20.0	21.3		ug/L		106	77 - 121
1,2-Dichlorobenzene	20.0	22.1		ug/L		111	80 - 119
1,2-Dichloroethane	20.0	20.2		ug/L		101	73 - 128

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-58674/5

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.4		ug/L		107	78 - 122
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	75 - 124
1,3-Dichlorobenzene	20.0	21.9		ug/L		109	80 - 119
1,3-Dichloropropane	20.0	20.4		ug/L		102	80 - 119
1,4-Dichlorobenzene	20.0	22.3		ug/L		112	79 - 118
2,2-Dichloropropane	20.0	21.1		ug/L		106	60 - 139
2-Butanone	150	149		ug/L		99	56 - 143
2-Chlorotoluene	20.0	21.5		ug/L		108	79 - 122
2-Hexanone	100	94.8		ug/L		95	57 - 139
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122
4-Methyl-2-pentanone	100	98.1		ug/L		98	67 - 130
Acetone	150	168		ug/L		112	39 - 160
Acrolein	150	142		ug/L		95	39 - 155
Acrylonitrile	100	105		ug/L		105	63 - 135
Benzene	20.0	21.8		ug/L		109	42 - 138
Bromobenzene	20.0	22.5		ug/L		113	80 - 120
Bromochloromethane	20.0	22.0		ug/L		110	78 - 123
Bromodichloromethane	20.0	20.8		ug/L		104	79 - 125
Bromoform	20.0	21.4		ug/L		107	66 - 130
Bromomethane	20.0	20.7		ug/L		104	53 - 141
Carbon disulfide	20.0	22.1		ug/L		111	64 - 133
Carbon tetrachloride	20.0	21.5		ug/L		108	72 - 136
Chlorobenzene	20.0	22.6		ug/L		113	82 - 118
Chloroethane	20.0	17.9		ug/L		89	60 - 138
Chloroform	20.0	21.6		ug/L		108	79 - 124
Chloromethane	20.0	17.0		ug/L		85	50 - 139
cis-1,2-Dichloroethene	20.0	23.7		ug/L		119	78 - 123
cis-1,3-Dichloropropene	20.0	20.3		ug/L		101	75 - 124
Dibromochloromethane	20.0	21.5		ug/L		108	74 - 126
Dibromomethane	20.0	21.3		ug/L		107	79 - 123
Dichlorodifluoromethane	20.0	19.2		ug/L		96	32 - 152
Ethylbenzene	20.0	21.3		ug/L		107	79 - 121
Hexachlorobutadiene	20.0	23.6		ug/L		118	66 - 134
Isopropylbenzene	20.0	21.8		ug/L		109	72 - 131
m&p-Xylene	40.0	45.1		ug/L		113	80 - 121
Methyl tertiary butyl ether	20.0	19.3		ug/L		96	71 - 124
Methylene Chloride	20.0	22.6		ug/L		113	74 - 124
Naphthalene	20.0	20.6		ug/L		103	61 - 128
n-Butylbenzene	20.0	19.8		ug/L		99	75 - 128
N-Propylbenzene	20.0	21.2		ug/L		106	76 - 126
o-Xylene	20.0	22.1		ug/L		110	78 - 122
p-Isopropyltoluene	20.0	21.5		ug/L		107	77 - 127
sec-Butylbenzene	20.0	21.0		ug/L		105	77 - 126
Styrene	20.0	22.1		ug/L		110	78 - 123
tert-Butylbenzene	20.0	20.5		ug/L		102	78 - 124
Tetrachloroethene	20.0	25.0		ug/L		125	74 - 129
Toluene	20.0	22.0		ug/L		110	80 - 121
trans-1,2-Dichloroethene	20.0	23.4		ug/L		117	75 - 124
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-58674/5

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	22.5		ug/L		113	79 - 123
Trichlorofluoromethane	20.0	20.9		ug/L		104	65 - 141
Vinyl chloride	20.0	18.5		ug/L		92	58 - 137
Xylenes, Total	60.0	67.2		ug/L		112	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	92		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: LCS 410-58674/7

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	95.4		ug/L		95	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	90		85 - 114
Dibromofluoromethane (Surr)	96		80 - 119
Toluene-d8 (Surr)	95		89 - 112

Lab Sample ID: LCSD 410-58674/6

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		104	78 - 124	5	20
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	74 - 131	5	20
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		94	71 - 121	7	20
1,1,2-Trichloroethane	20.0	20.5		ug/L		103	80 - 119	7	20
1,1-Dichloroethane	20.0	20.2		ug/L		101	77 - 125	4	20
1,1-Dichloroethene	20.0	23.2		ug/L		116	71 - 131	4	20
1,1-Dichloropropene	20.0	20.6		ug/L		103	79 - 125	7	20
1,2,3-Trichlorobenzene	20.0	20.9		ug/L		105	69 - 129	8	20
1,2,3-Trichloropropane	20.0	19.3		ug/L		96	73 - 122	5	20
1,2,4-Trichlorobenzene	20.0	21.1		ug/L		105	69 - 130	5	20
1,2,4-Trimethylbenzene	20.0	19.0		ug/L		95	76 - 124	6	20
1,2-Dibromo-3-Chloropropane	20.0	16.7		ug/L		84	62 - 128	10	20
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121	7	20
1,2-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 119	7	20
1,2-Dichloroethane	20.0	18.8		ug/L		94	73 - 128	7	20
1,2-Dichloropropane	20.0	19.9		ug/L		99	78 - 122	8	20
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		96	75 - 124	6	20
1,3-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 119	6	20
1,3-Dichloropropane	20.0	18.8		ug/L		94	80 - 119	8	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-58674/6

Matrix: Water

Analysis Batch: 58674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	79 - 118	6	20
2,2-Dichloropropane	20.0	19.9		ug/L		99	60 - 139	6	20
2-Butanone	150	139		ug/L		93	56 - 143	7	20
2-Chlorotoluene	20.0	20.4		ug/L		102	79 - 122	6	20
2-Hexanone	100	87.5		ug/L		88	57 - 139	8	20
4-Chlorotoluene	20.0	20.5		ug/L		103	78 - 122	6	20
4-Methyl-2-pentanone	100	91.7		ug/L		92	67 - 130	7	20
Acetone	150	166		ug/L		110	39 - 160	1	20
Acrolein	150	137		ug/L		91	39 - 155	4	20
Acrylonitrile	100	99.3		ug/L		99	63 - 135	6	20
Benzene	20.0	20.5		ug/L		102	42 - 138	6	20
Bromobenzene	20.0	21.0		ug/L		105	80 - 120	7	20
Bromochloromethane	20.0	20.6		ug/L		103	78 - 123	7	20
Bromodichloromethane	20.0	19.7		ug/L		98	79 - 125	6	20
Bromoform	20.0	20.5		ug/L		103	66 - 130	4	20
Bromomethane	20.0	19.8		ug/L		99	53 - 141	5	20
Carbon disulfide	20.0	21.0		ug/L		105	64 - 133	5	20
Carbon tetrachloride	20.0	20.3		ug/L		102	72 - 136	6	20
Chlorobenzene	20.0	21.1		ug/L		105	82 - 118	7	20
Chloroethane	20.0	17.4		ug/L		87	60 - 138	3	20
Chloroform	20.0	20.3		ug/L		101	79 - 124	6	20
Chloromethane	20.0	16.7		ug/L		84	50 - 139	2	20
cis-1,2-Dichloroethene	20.0	22.4		ug/L		112	78 - 123	5	20
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	75 - 124	6	20
Dibromochloromethane	20.0	20.1		ug/L		101	74 - 126	7	20
Dibromomethane	20.0	19.9		ug/L		99	79 - 123	7	20
Dichlorodifluoromethane	20.0	18.0		ug/L		90	32 - 152	6	20
Ethylbenzene	20.0	20.1		ug/L		101	79 - 121	6	20
Hexachlorobutadiene	20.0	21.8		ug/L		109	66 - 134	8	20
Isopropylbenzene	20.0	20.5		ug/L		102	72 - 131	7	20
m&p-Xylene	40.0	42.1		ug/L		105	80 - 121	7	20
Methyl tertiary butyl ether	20.0	18.2		ug/L		91	71 - 124	6	20
Methylene Chloride	20.0	21.4		ug/L		107	74 - 124	5	20
Naphthalene	20.0	19.1		ug/L		95	61 - 128	8	20
n-Butylbenzene	20.0	18.6		ug/L		93	75 - 128	6	20
N-Propylbenzene	20.0	19.8		ug/L		99	76 - 126	7	20
o-Xylene	20.0	20.5		ug/L		103	78 - 122	7	20
p-Isopropyltoluene	20.0	19.9		ug/L		99	77 - 127	8	20
sec-Butylbenzene	20.0	19.6		ug/L		98	77 - 126	7	20
Styrene	20.0	20.6		ug/L		103	78 - 123	7	20
tert-Butylbenzene	20.0	19.3		ug/L		97	78 - 124	6	20
Tetrachloroethene	20.0	22.9		ug/L		114	74 - 129	9	20
Toluene	20.0	20.6		ug/L		103	80 - 121	7	20
trans-1,2-Dichloroethene	20.0	21.7		ug/L		109	75 - 124	8	20
trans-1,3-Dichloropropene	20.0	17.8		ug/L		89	73 - 127	7	20
Trichloroethene	20.0	21.2		ug/L		106	79 - 123	6	20
Trichlorofluoromethane	20.0	19.8		ug/L		99	65 - 141	5	20
Vinyl chloride	20.0	18.2		ug/L		91	58 - 137	1	20
Xylenes, Total	60.0	62.6		ug/L		104	79 - 121	7	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	91		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: LCSD 410-58674/8
Matrix: Water
Analysis Batch: 58674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	87.6		ug/L		88	54 - 146	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	90		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: MB 410-58940/10
Matrix: Water
Analysis Batch: 58940

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:06	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/27/20 13:06	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 13:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 13:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 13:06	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:06	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 13:06	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:06	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 13:06	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/27/20 13:06	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/27/20 13:06	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/27/20 13:06	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/27/20 13:06	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-58940/10

Matrix: Water

Analysis Batch: 58940

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/27/20 13:06	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/27/20 13:06	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:06	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 13:06	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/27/20 13:06	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 13:06	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/27/20 13:06	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/27/20 13:06	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/27/20 13:06	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/27/20 13:06	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/27/20 13:06	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/27/20 13:06	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/27/20 13:06	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/27/20 13:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/27/20 13:06	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/27/20 13:06	1
Dibromofluoromethane (Surr)	101		80 - 119		10/27/20 13:06	1
Toluene-d8 (Surr)	99		89 - 112		10/27/20 13:06	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-58940/5

Matrix: Water

Analysis Batch: 58940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	78 - 124
1,1,1-Trichloroethane	20.0	20.2		ug/L		101	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.0		ug/L		100	71 - 121
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	80 - 119
1,1-Dichloroethane	20.0	20.7		ug/L		104	77 - 125
1,1-Dichloroethene	20.0	20.6		ug/L		103	71 - 131
1,1-Dichloropropene	20.0	20.2		ug/L		101	79 - 125
1,2,3-Trichlorobenzene	20.0	21.0		ug/L		105	69 - 129
1,2,3-Trichloropropane	20.0	19.6		ug/L		98	73 - 122
1,2,4-Trichlorobenzene	20.0	21.2		ug/L		106	69 - 130
1,2,4-Trimethylbenzene	20.0	20.8		ug/L		104	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	20.7		ug/L		104	73 - 128
1,2-Dichloropropane	20.0	21.2		ug/L		106	78 - 122
1,3,5-Trimethylbenzene	20.0	20.7		ug/L		104	75 - 124
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,3-Dichloropropane	20.0	19.9		ug/L		100	80 - 119
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	79 - 118
2,2-Dichloropropane	20.0	22.3		ug/L		111	60 - 139
2-Butanone	150	178		ug/L		119	56 - 143
2-Chlorotoluene	20.0	20.3		ug/L		102	79 - 122
2-Hexanone	100	107		ug/L		107	57 - 139
4-Chlorotoluene	20.0	20.5		ug/L		103	78 - 122
4-Methyl-2-pentanone	100	102		ug/L		102	67 - 130
Acetone	150	213		ug/L		142	39 - 160
Acrolein	150	122		ug/L		82	39 - 155
Acrylonitrile	100	91.0		ug/L		91	63 - 135
Benzene	20.0	19.8		ug/L		99	42 - 138
Bromobenzene	20.0	20.3		ug/L		101	80 - 120
Bromochloromethane	20.0	19.8		ug/L		99	78 - 123
Bromodichloromethane	20.0	20.0		ug/L		100	79 - 125
Bromoform	20.0	16.3		ug/L		82	66 - 130
Bromomethane	20.0	17.8		ug/L		89	53 - 141
Carbon disulfide	20.0	18.5		ug/L		93	64 - 133
Carbon tetrachloride	20.0	20.3		ug/L		101	72 - 136
Chlorobenzene	20.0	20.2		ug/L		101	82 - 118
Chloroethane	20.0	18.0		ug/L		90	60 - 138
Chloroform	20.0	20.4		ug/L		102	79 - 124
Chloromethane	20.0	22.2		ug/L		111	50 - 139
cis-1,2-Dichloroethene	20.0	21.5		ug/L		107	78 - 123
cis-1,3-Dichloropropene	20.0	20.5		ug/L		102	75 - 124
Dibromochloromethane	20.0	18.8		ug/L		94	74 - 126
Dibromomethane	20.0	20.4		ug/L		102	79 - 123
Dichlorodifluoromethane	20.0	14.3		ug/L		71	32 - 152
Ethylbenzene	20.0	20.1		ug/L		100	79 - 121
Hexachlorobutadiene	20.0	19.4		ug/L		97	66 - 134

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-58940/5

Matrix: Water

Analysis Batch: 58940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	20.0	20.6		ug/L		103	72 - 131
m&p-Xylene	40.0	41.2		ug/L		103	80 - 121
Methyl tertiary butyl ether	20.0	19.7		ug/L		98	71 - 124
Methylene Chloride	20.0	20.3		ug/L		101	74 - 124
Naphthalene	20.0	21.2		ug/L		106	61 - 128
n-Butylbenzene	20.0	20.7		ug/L		104	75 - 128
N-Propylbenzene	20.0	20.8		ug/L		104	76 - 126
o-Xylene	20.0	20.7		ug/L		103	78 - 122
p-Isopropyltoluene	20.0	21.5		ug/L		107	77 - 127
sec-Butylbenzene	20.0	20.9		ug/L		104	77 - 126
Styrene	20.0	20.6		ug/L		103	78 - 123
tert-Butylbenzene	20.0	21.4		ug/L		107	78 - 124
Tetrachloroethene	20.0	17.4		ug/L		87	74 - 129
Toluene	20.0	19.6		ug/L		98	80 - 121
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	75 - 124
trans-1,3-Dichloropropene	20.0	20.1		ug/L		101	73 - 127
Trichloroethene	20.0	20.0		ug/L		100	79 - 123
Trichlorofluoromethane	20.0	21.1		ug/L		106	65 - 141
Vinyl chloride	20.0	22.9		ug/L		114	58 - 137
Xylenes, Total	60.0	61.9		ug/L		103	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	98		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-58940/7

Matrix: Water

Analysis Batch: 58940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	105		ug/L		105	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-58940/6

Matrix: Water

Analysis Batch: 58940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/L		100	78 - 124	1	20
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/L		101	71 - 121	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-58940/6

Matrix: Water

Analysis Batch: 58940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	80 - 119	1	20
1,1-Dichloroethane	20.0	21.0		ug/L		105	77 - 125	1	20
1,1-Dichloroethene	20.0	21.0		ug/L		105	71 - 131	2	20
1,1-Dichloropropene	20.0	20.3		ug/L		102	79 - 125	1	20
1,2,3-Trichlorobenzene	20.0	20.9		ug/L		104	69 - 129	1	20
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122	2	20
1,2,4-Trichlorobenzene	20.0	21.3		ug/L		106	69 - 130	0	20
1,2,4-Trimethylbenzene	20.0	20.6		ug/L		103	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	19.2		ug/L		96	62 - 128	1	20
1,2-Dibromoethane	20.0	19.7		ug/L		98	77 - 121	0	20
1,2-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 119	0	20
1,2-Dichloroethane	20.0	20.8		ug/L		104	73 - 128	0	20
1,2-Dichloropropane	20.0	21.3		ug/L		107	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	20.6		ug/L		103	75 - 124	0	20
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119	0	20
1,3-Dichloropropane	20.0	20.1		ug/L		100	80 - 119	1	20
1,4-Dichlorobenzene	20.0	20.5		ug/L		103	79 - 118	1	20
2,2-Dichloropropane	20.0	22.5		ug/L		112	60 - 139	1	20
2-Butanone	150	184		ug/L		123	56 - 143	3	20
2-Chlorotoluene	20.0	20.4		ug/L		102	79 - 122	0	20
2-Hexanone	100	109		ug/L		109	57 - 139	2	20
4-Chlorotoluene	20.0	20.7		ug/L		103	78 - 122	1	20
4-Methyl-2-pentanone	100	103		ug/L		103	67 - 130	1	20
Acetone	150	222		ug/L		148	39 - 160	4	20
Acrolein	150	123		ug/L		82	39 - 155	1	20
Acrylonitrile	100	90.8		ug/L		91	63 - 135	0	20
Benzene	20.0	19.9		ug/L		100	42 - 138	1	20
Bromobenzene	20.0	20.5		ug/L		103	80 - 120	1	20
Bromochloromethane	20.0	19.9		ug/L		100	78 - 123	1	20
Bromodichloromethane	20.0	20.1		ug/L		101	79 - 125	1	20
Bromoform	20.0	16.3		ug/L		81	66 - 130	0	20
Bromomethane	20.0	20.3		ug/L		101	53 - 141	13	20
Carbon disulfide	20.0	18.7		ug/L		93	64 - 133	1	20
Carbon tetrachloride	20.0	20.4		ug/L		102	72 - 136	1	20
Chlorobenzene	20.0	20.1		ug/L		100	82 - 118	1	20
Chloroethane	20.0	21.8		ug/L		109	60 - 138	19	20
Chloroform	20.0	20.4		ug/L		102	79 - 124	0	20
Chloromethane	20.0	22.3		ug/L		111	50 - 139	0	20
cis-1,2-Dichloroethene	20.0	21.6		ug/L		108	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	20.8		ug/L		104	75 - 124	2	20
Dibromochloromethane	20.0	18.7		ug/L		94	74 - 126	0	20
Dibromomethane	20.0	20.7		ug/L		103	79 - 123	1	20
Dichlorodifluoromethane	20.0	14.0		ug/L		70	32 - 152	2	20
Ethylbenzene	20.0	20.1		ug/L		101	79 - 121	0	20
Hexachlorobutadiene	20.0	19.3		ug/L		97	66 - 134	1	20
Isopropylbenzene	20.0	20.7		ug/L		104	72 - 131	0	20
m&p-Xylene	40.0	41.1		ug/L		103	80 - 121	0	20
Methyl tertiary butyl ether	20.0	19.8		ug/L		99	71 - 124	0	20
Methylene Chloride	20.0	20.4		ug/L		102	74 - 124	0	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-58940/6

Matrix: Water

Analysis Batch: 58940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	20.0	21.4		ug/L		107	61 - 128	1	20
n-Butylbenzene	20.0	20.6		ug/L		103	75 - 128	1	20
N-Propylbenzene	20.0	20.8		ug/L		104	76 - 126	0	20
o-Xylene	20.0	20.7		ug/L		103	78 - 122	0	20
p-Isopropyltoluene	20.0	21.6		ug/L		108	77 - 127	1	20
sec-Butylbenzene	20.0	20.9		ug/L		104	77 - 126	0	20
Styrene	20.0	20.6		ug/L		103	78 - 123	0	20
tert-Butylbenzene	20.0	20.5		ug/L		103	78 - 124	4	20
Tetrachloroethene	20.0	17.7		ug/L		88	74 - 129	1	20
Toluene	20.0	19.6		ug/L		98	80 - 121	0	20
trans-1,2-Dichloroethene	20.0	20.1		ug/L		101	75 - 124	1	20
trans-1,3-Dichloropropene	20.0	20.3		ug/L		101	73 - 127	1	20
Trichloroethene	20.0	20.1		ug/L		100	79 - 123	0	20
Trichlorofluoromethane	20.0	21.1		ug/L		105	65 - 141	0	20
Vinyl chloride	20.0	23.2		ug/L		116	58 - 137	1	20
Xylenes, Total	60.0	61.8		ug/L		103	79 - 121	0	20

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: LCSD 410-58940/8

Matrix: Water

Analysis Batch: 58940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	105		ug/L		105	54 - 146	0	20

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-58086/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58086

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	70		46 - 136	10/24/20 07:08	10/24/20 19:57	1
1,1,2,2-Tetrachloroethane (2C)	68		46 - 136	10/24/20 07:08	10/24/20 19:57	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: LCS 410-58086/2-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.112		ug/L		88	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	71		46 - 136
1,1,2,2-Tetrachloroethane (2C)	71		46 - 136

Lab Sample ID: LCSD 410-58086/3-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58086

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.122		ug/L		95	60 - 140	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136
1,1,2,2-Tetrachloroethane (2C)	69		46 - 136

Lab Sample ID: MB 410-58096/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58096

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 19:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136	10/24/20 07:38	10/24/20 19:07	1
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136	10/24/20 07:38	10/24/20 19:07	1

Lab Sample ID: LCS 410-58096/2-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.127		ug/L		100	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136

Lab Sample ID: LCSD 410-58096/3-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58096

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.125		ug/L		98	60 - 140	2	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-58096/3-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58096

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136

Lab Sample ID: 410-17330-13 MS

Matrix: Water

Analysis Batch: 58622

Client Sample ID: GW064-204

Prep Type: Total/NA

Prep Batch: 58096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.019	U M J1	0.123	0.132		ug/L		107	60 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	71	M	46 - 136						
1,1,2,2-Tetrachloroethane (2C)	77	M	46 - 136						

Lab Sample ID: 410-17330-14 DU

Matrix: Water

Analysis Batch: 58622

Client Sample ID: GW247-450-204

Prep Type: Total/NA

Prep Batch: 58096

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ethylene Dibromide (1C)	0.019	U	0.019	U	ug/L		NC	30
Surrogate	DU %Recovery	DU Qualifier	Limits					
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136					
1,1,2,2-Tetrachloroethane (2C)	69		46 - 136					

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-55487/4

Matrix: Water

Analysis Batch: 55487

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/17/20 05:20	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/17/20 05:20	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/17/20 05:20	1

Lab Sample ID: LCS 410-55487/3

Matrix: Water

Analysis Batch: 55487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.89		mg/L		105	90 - 110
Chloride	3.00	3.02		mg/L		101	90 - 110
Sulfate	7.50	7.63		mg/L		102	90 - 110

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-55491/4

Matrix: Water

Analysis Batch: 55491

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/17/20 12:45	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/17/20 12:45	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/17/20 12:45	1

Lab Sample ID: LCS 410-55491/3

Matrix: Water

Analysis Batch: 55491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	6.77		mg/L		90	90 - 110
Chloride	3.00	2.78		mg/L		93	90 - 110
Sulfate	7.50	7.10		mg/L		95	90 - 110

Lab Sample ID: 410-17330-10 MS

Matrix: Water

Analysis Batch: 55491

Client Sample ID: GW100-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11	J1 D	10.0	18.2	J1 D	mg/L		75	90 - 110
Sulfate	27	D	25.0	51.9	D	mg/L		98	90 - 110

Lab Sample ID: 410-17330-10 DU

Matrix: Water

Analysis Batch: 55491

Client Sample ID: GW100-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	11	J1 D	10.3	D	mg/L		3	15
Sulfate	27	D	27.1	D	mg/L		0.5	15

Lab Sample ID: MB 410-56900/4

Matrix: Water

Analysis Batch: 56900

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/21/20 10:50	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/21/20 10:50	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/21/20 10:50	1

Lab Sample ID: LCS 410-56900/3

Matrix: Water

Analysis Batch: 56900

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	8.03		mg/L		107	90 - 110
Chloride	3.00	3.17		mg/L		106	90 - 110
Sulfate	7.50	8.11		mg/L		108	90 - 110

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-59324/4

Matrix: Water

Analysis Batch: 59324

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/28/20 07:19	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/28/20 07:19	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/28/20 07:19	1

Lab Sample ID: LCS 410-59324/3

Matrix: Water

Analysis Batch: 59324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.23		mg/L		96	90 - 110
Chloride	3.00	2.94		mg/L		98	90 - 110
Sulfate	7.50	7.34		mg/L		98	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-55526/1-A

Matrix: Water

Analysis Batch: 56883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55526

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 08:39	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/21/20 08:39	1

Lab Sample ID: LCS 410-55526/2-A

Matrix: Water

Analysis Batch: 56883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.428		mg/L		106	87 - 115
Manganese	0.0200	0.0263	Q	mg/L		132	90 - 114

Lab Sample ID: MB 410-55531/1-A

Matrix: Water

Analysis Batch: 57078

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55531

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 17:46	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/21/20 17:46	1

Lab Sample ID: LCS 410-55531/2-A

Matrix: Water

Analysis Batch: 57078

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.460		mg/L		114	87 - 115
Manganese	0.0200	0.0247	Q	mg/L		124	90 - 114

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-55843/1-A

Matrix: Water

Analysis Batch: 56592

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55843

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 19:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 19:36	1

Lab Sample ID: LCS 410-55843/2-A

Matrix: Water

Analysis Batch: 56592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.389		mg/L		97	87 - 115
Manganese	0.0200	0.0207		mg/L		104	90 - 114

Lab Sample ID: MB 410-57800/1-A

Matrix: Water

Analysis Batch: 57876

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57800

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/23/20 10:15	1

Lab Sample ID: LCS 410-57800/2-A

Matrix: Water

Analysis Batch: 57876

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.0200	0.0209		mg/L		105	90 - 114

Lab Sample ID: MB 410-55166/1-A

Matrix: Water

Analysis Batch: 57495

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/22/20 13:50	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/22/20 13:50	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/22/20 13:50	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/22/20 13:50	1

Lab Sample ID: LCS 410-55166/2-A

Matrix: Water

Analysis Batch: 57495

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.439		mg/L		110	87 - 113
Magnesium	0.200	0.209		mg/L		105	85 - 113
Sodium	2.00	2.10		mg/L		105	87 - 115

Lab Sample ID: LCS 410-55166/2-A

Matrix: Water

Analysis Batch: 58203

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.90		mg/L		105	86 - 114

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 6010C - Metals (ICP)

Lab Sample ID: 410-17330-19 MS

Matrix: Water

Analysis Batch: 57495

Client Sample ID: GW015-204

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	43	J1	0.400	44.2	4	mg/L	-	258	87 - 113
Magnesium	5.1	J1	0.200	5.35	4	mg/L	-	135	85 - 113
Sodium	20	J1	2.00	22.1	4	mg/L	-	127	87 - 115

Lab Sample ID: 410-17330-19 MS

Matrix: Water

Analysis Batch: 58203

Client Sample ID: GW015-204

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	2.2	J1	5.60	7.99		mg/L	-	104	86 - 114

Lab Sample ID: 410-17330-19 MSD

Matrix: Water

Analysis Batch: 57495

Client Sample ID: GW015-204

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	43	J1	0.400	44.6	4	mg/L	-	369	87 - 113	1	20
Magnesium	5.1	J1	0.200	5.42	4	mg/L	-	167	85 - 113	1	20
Sodium	20	J1	2.00	22.2	4	mg/L	-	134	87 - 115	1	20

Lab Sample ID: 410-17330-19 MSD

Matrix: Water

Analysis Batch: 58203

Client Sample ID: GW015-204

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	2.2	J1	5.60	8.08		mg/L	-	105	86 - 114	1	20

Lab Sample ID: 410-17330-19 DU

Matrix: Water

Analysis Batch: 57495

Client Sample ID: GW015-204

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	43	J1	43.7		mg/L	-	1	20
Magnesium	5.1	J1	5.16		mg/L	-	2	20
Sodium	20	J1	19.8		mg/L	-	1	20

Lab Sample ID: 410-17330-19 DU

Matrix: Water

Analysis Batch: 58203

Client Sample ID: GW015-204

Prep Type: Total Recoverable

Prep Batch: 55166

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Potassium	2.2	J1	2.13		mg/L	-	3	20

Lab Sample ID: MB 410-55546/1-A

Matrix: Water

Analysis Batch: 55995

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L	-	10/19/20 14:04	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L	-	10/19/20 14:04	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-55546/1-A

Matrix: Water

Analysis Batch: 55995

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/19/20 14:04	1

Lab Sample ID: MB 410-55546/1-A

Matrix: Water

Analysis Batch: 56483

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/20/20 14:35	1

Lab Sample ID: LCS 410-55546/2-A

Matrix: Water

Analysis Batch: 55995

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.404		mg/L		101	87 - 113
Magnesium	0.200	0.225		mg/L		113	85 - 113
Potassium	5.60	5.33		mg/L		95	86 - 114

Lab Sample ID: LCS 410-55546/2-A

Matrix: Water

Analysis Batch: 56483

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	2.00	1.99		mg/L		100	87 - 115

Lab Sample ID: 410-17330-1 MS

Matrix: Water

Analysis Batch: 56883

Client Sample ID: GW222-204

Prep Type: Dissolved

Prep Batch: 55526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U Q	0.402	0.424	Q	mg/L		105	87 - 115
Manganese	0.0052	U J1 Q	0.0200	0.0255	J1 Q	mg/L		128	90 - 114

Lab Sample ID: 410-17330-1 DU

Matrix: Water

Analysis Batch: 56883

Client Sample ID: GW222-204

Prep Type: Dissolved

Prep Batch: 55526

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.10	U Q	0.10	U Q	mg/L		NC	20
Manganese	0.0052	U J1 Q	0.0052	U Q	mg/L		NC	20

Lab Sample ID: 410-17330-13 MS

Matrix: Water

Analysis Batch: 57876

Client Sample ID: GW064-204

Prep Type: Dissolved

Prep Batch: 57800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	8.0	J1	0.0200	7.96	4	mg/L		-383	90 - 114

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-17330-13 MSD

Matrix: Water

Analysis Batch: 57876

Client Sample ID: GW064-204

Prep Type: Dissolved

Prep Batch: 57800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	8.0	J1	0.0200	8.00	4	mg/L		-182	90 - 114	1	20

Lab Sample ID: 410-17330-13 DU

Matrix: Water

Analysis Batch: 57876

Client Sample ID: GW064-204

Prep Type: Dissolved

Prep Batch: 57800

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	8.0	J1	7.93		mg/L		1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-55014/1-A

Matrix: Water

Analysis Batch: 56801

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55014

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 18:28	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 18:28	1

Lab Sample ID: LCS 410-55014/2-A

Matrix: Water

Analysis Batch: 56801

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0561		mg/L		94	84 - 116
Lead	0.0300	0.0297		mg/L		99	88 - 115

Lab Sample ID: MB 410-55268/1-A

Matrix: Water

Analysis Batch: 56799

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55268

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/20/20 19:35	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/20/20 19:35	1

Lab Sample ID: LCS 410-55268/2-A

Matrix: Water

Analysis Batch: 56799

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0556		mg/L		93	84 - 116
Lead	0.0300	0.0295		mg/L		98	88 - 115

Lab Sample ID: MB 410-55716/1-A

Matrix: Water

Analysis Batch: 56298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55716

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 20:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 20:55	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-55716/2-A

Matrix: Water

Analysis Batch: 56298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0589		mg/L		98	84 - 116
Lead	0.0300	0.0303		mg/L		101	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-55961/15

Matrix: Water

Analysis Batch: 55961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 18:57	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 18:57	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 18:57	1

Lab Sample ID: MB 410-55961/44

Matrix: Water

Analysis Batch: 55961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 22:00	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 22:00	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/16/20 22:00	1

Lab Sample ID: LCS 410-55961/16

Matrix: Water

Analysis Batch: 55961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106

Lab Sample ID: LCS 410-55961/45

Matrix: Water

Analysis Batch: 55961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-63338/20

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 11:38	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: MB 410-63338/53

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 12:16	1

Lab Sample ID: LCS 410-63338/21

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.52		mg/L		101	90 - 110

Lab Sample ID: LCS 410-63338/54

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.64		mg/L		106	90 - 110

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

GC/MS VOA

Analysis Batch: 58674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-17	GW063-204	Total/NA	Water	8260C DOD	
410-17330-17 - DL	GW063-204	Total/NA	Water	8260C DOD	
410-17330-18	GW243-425-204	Total/NA	Water	8260C DOD	
410-17330-19	GW015-204	Total/NA	Water	8260C DOD	
MB 410-58674/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-58674/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-58674/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-58674/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-58674/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 58940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	8260C DOD	
410-17330-2	GW223-204	Total/NA	Water	8260C DOD	
410-17330-3	GW224-204	Total/NA	Water	8260C DOD	
410-17330-4	TB204-44	Total/NA	Water	8260C DOD	
410-17330-5	GW213-204	Total/NA	Water	8260C DOD	
410-17330-6	GW214-204	Total/NA	Water	8260C DOD	
410-17330-7	GW215-204	Total/NA	Water	8260C DOD	
410-17330-8	TB204-45	Total/NA	Water	8260C DOD	
410-17330-9	GW004-204	Total/NA	Water	8260C DOD	
410-17330-10	GW100-204	Total/NA	Water	8260C DOD	
410-17330-11	GW099-204	Total/NA	Water	8260C DOD	
410-17330-12	TB204-46	Total/NA	Water	8260C DOD	
410-17330-13	GW064-204	Total/NA	Water	8260C DOD	
410-17330-13 - DL	GW064-204	Total/NA	Water	8260C DOD	
410-17330-14	GW247-450-204	Total/NA	Water	8260C DOD	
410-17330-15	GW244-445-204	Total/NA	Water	8260C DOD	
410-17330-16	TB204-43	Total/NA	Water	8260C DOD	
410-17330-20	TB204-42	Total/NA	Water	8260C DOD	
MB 410-58940/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-58940/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-58940/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-58940/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-58940/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 58086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	8011	
410-17330-2	GW223-204	Total/NA	Water	8011	
410-17330-3	GW224-204	Total/NA	Water	8011	
410-17330-4	TB204-44	Total/NA	Water	8011	
410-17330-5	GW213-204	Total/NA	Water	8011	
410-17330-6	GW214-204	Total/NA	Water	8011	
410-17330-7	GW215-204	Total/NA	Water	8011	
410-17330-8	TB204-45	Total/NA	Water	8011	
410-17330-9	GW004-204	Total/NA	Water	8011	
410-17330-10	GW100-204	Total/NA	Water	8011	
410-17330-11	GW099-204	Total/NA	Water	8011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

GC Semi VOA (Continued)

Prep Batch: 58086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-12	TB204-46	Total/NA	Water	8011	
410-17330-18	GW243-425-204	Total/NA	Water	8011	
410-17330-19	GW015-204	Total/NA	Water	8011	
MB 410-58086/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58086/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58086/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 58096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-13	GW064-204	Total/NA	Water	8011	
410-17330-14	GW247-450-204	Total/NA	Water	8011	
410-17330-15	GW244-445-204	Total/NA	Water	8011	
410-17330-16	TB204-43	Total/NA	Water	8011	
410-17330-17	GW063-204	Total/NA	Water	8011	
410-17330-20	TB204-42	Total/NA	Water	8011	
MB 410-58096/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58096/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58096/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-17330-13 MS	GW064-204	Total/NA	Water	8011	
410-17330-14 DU	GW247-450-204	Total/NA	Water	8011	

Analysis Batch: 58622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	8011	58086
410-17330-2	GW223-204	Total/NA	Water	8011	58086
410-17330-3	GW224-204	Total/NA	Water	8011	58086
410-17330-4	TB204-44	Total/NA	Water	8011	58086
410-17330-5	GW213-204	Total/NA	Water	8011	58086
410-17330-6	GW214-204	Total/NA	Water	8011	58086
410-17330-7	GW215-204	Total/NA	Water	8011	58086
410-17330-8	TB204-45	Total/NA	Water	8011	58086
410-17330-9	GW004-204	Total/NA	Water	8011	58086
410-17330-10	GW100-204	Total/NA	Water	8011	58086
410-17330-11	GW099-204	Total/NA	Water	8011	58086
410-17330-12	TB204-46	Total/NA	Water	8011	58086
410-17330-13	GW064-204	Total/NA	Water	8011	58096
410-17330-14	GW247-450-204	Total/NA	Water	8011	58096
410-17330-15	GW244-445-204	Total/NA	Water	8011	58096
410-17330-16	TB204-43	Total/NA	Water	8011	58096
410-17330-17	GW063-204	Total/NA	Water	8011	58096
410-17330-18	GW243-425-204	Total/NA	Water	8011	58086
410-17330-19	GW015-204	Total/NA	Water	8011	58086
410-17330-20	TB204-42	Total/NA	Water	8011	58096
MB 410-58086/1-A	Method Blank	Total/NA	Water	8011	58086
MB 410-58096/1-A	Method Blank	Total/NA	Water	8011	58096
LCS 410-58086/2-A	Lab Control Sample	Total/NA	Water	8011	58086
LCS 410-58096/2-A	Lab Control Sample	Total/NA	Water	8011	58096
LCSD 410-58086/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58086
LCSD 410-58096/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58096
410-17330-13 MS	GW064-204	Total/NA	Water	8011	58096
410-17330-14 DU	GW247-450-204	Total/NA	Water	8011	58096

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

HPLC/IC

Analysis Batch: 55487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-13	GW064-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-14	GW247-450-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-15	GW244-445-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-15	GW244-445-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-17	GW063-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-18	GW243-425-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-19	GW015-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-55487/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55487/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 55491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-1	GW222-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-2	GW223-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-2	GW223-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-3	GW224-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-5	GW213-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-5	GW213-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-6	GW214-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-6	GW214-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-7	GW215-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-9	GW004-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-10	GW100-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-11	GW099-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-55491/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-55491/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-17330-10 MS	GW100-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-10 DU	GW100-204	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 56900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-2	GW223-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-3	GW224-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-5	GW213-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-6	GW214-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-7	GW215-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-9	GW004-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-10	GW100-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-11	GW099-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56900/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56900/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 59324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-13	GW064-204	Total/NA	Water	EPA 300.0 R2.1	
410-17330-17	GW063-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-59324/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-59324/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Metals

Prep Batch: 55014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	3020A	
410-17330-2	GW223-204	Total/NA	Water	3020A	
MB 410-55014/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-55014/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 55166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total Recoverable	Water	3005A	
410-17330-2	GW223-204	Total Recoverable	Water	3005A	
410-17330-3	GW224-204	Total Recoverable	Water	3005A	
410-17330-5	GW213-204	Total Recoverable	Water	3005A	
410-17330-6	GW214-204	Total Recoverable	Water	3005A	
410-17330-7	GW215-204	Total Recoverable	Water	3005A	
410-17330-9	GW004-204	Total Recoverable	Water	3005A	
410-17330-10	GW100-204	Total Recoverable	Water	3005A	
410-17330-11	GW099-204	Total Recoverable	Water	3005A	
410-17330-13	GW064-204	Total Recoverable	Water	3005A	
410-17330-14	GW247-450-204	Total Recoverable	Water	3005A	
410-17330-15	GW244-445-204	Total Recoverable	Water	3005A	
410-17330-17	GW063-204	Total Recoverable	Water	3005A	
410-17330-19	GW015-204	Total Recoverable	Water	3005A	
MB 410-55166/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-55166/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-17330-19 MS	GW015-204	Total Recoverable	Water	3005A	
410-17330-19 MSD	GW015-204	Total Recoverable	Water	3005A	
410-17330-19 DU	GW015-204	Total Recoverable	Water	3005A	

Prep Batch: 55268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-3	GW224-204	Total/NA	Water	3020A	
410-17330-5	GW213-204	Total/NA	Water	3020A	
410-17330-6	GW214-204	Total/NA	Water	3020A	
410-17330-7	GW215-204	Total/NA	Water	3020A	
410-17330-9	GW004-204	Total/NA	Water	3020A	
410-17330-10	GW100-204	Total/NA	Water	3020A	
410-17330-14	GW247-450-204	Total/NA	Water	3020A	
410-17330-15	GW244-445-204	Total/NA	Water	3020A	
MB 410-55268/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-55268/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 55526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Dissolved	Water	Non-Digest Prep	
MB 410-55526/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-55526/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-17330-1 MS	GW222-204	Dissolved	Water	Non-Digest Prep	
410-17330-1 DU	GW222-204	Dissolved	Water	Non-Digest Prep	

Prep Batch: 55531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-2	GW223-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Metals (Continued)

Prep Batch: 55531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-3	GW224-204	Dissolved	Water	Non-Digest Prep	
410-17330-5	GW213-204	Dissolved	Water	Non-Digest Prep	
410-17330-6	GW214-204	Dissolved	Water	Non-Digest Prep	
410-17330-7	GW215-204	Dissolved	Water	Non-Digest Prep	
410-17330-9	GW004-204	Dissolved	Water	Non-Digest Prep	
410-17330-10	GW100-204	Dissolved	Water	Non-Digest Prep	
410-17330-11	GW099-204	Dissolved	Water	Non-Digest Prep	
410-17330-13	GW064-204	Dissolved	Water	Non-Digest Prep	
410-17330-14	GW247-450-204	Dissolved	Water	Non-Digest Prep	
410-17330-15	GW244-445-204	Dissolved	Water	Non-Digest Prep	
410-17330-17	GW063-204	Dissolved	Water	Non-Digest Prep	
410-17330-18	GW243-425-204	Dissolved	Water	Non-Digest Prep	
MB 410-55531/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-55531/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 55546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-18	GW243-425-204	Total Recoverable	Water	3005A	
MB 410-55546/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-55546/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 55716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-11	GW099-204	Total/NA	Water	3020A	
410-17330-13	GW064-204	Total/NA	Water	3020A	
410-17330-17	GW063-204	Total/NA	Water	3020A	
410-17330-18	GW243-425-204	Total/NA	Water	3020A	
410-17330-19	GW015-204	Total/NA	Water	3020A	
MB 410-55716/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-55716/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 55843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-19	GW015-204	Dissolved	Water	Non-Digest Prep	
MB 410-55843/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-55843/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 55995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-18	GW243-425-204	Total Recoverable	Water	6010C	55546
MB 410-55546/1-A	Method Blank	Total Recoverable	Water	6010C	55546
LCS 410-55546/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55546

Analysis Batch: 56298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-11	GW099-204	Total/NA	Water	6020A	55716
410-17330-13	GW064-204	Total/NA	Water	6020A	55716
410-17330-17	GW063-204	Total/NA	Water	6020A	55716
410-17330-18	GW243-425-204	Total/NA	Water	6020A	55716
410-17330-19	GW015-204	Total/NA	Water	6020A	55716
MB 410-55716/1-A	Method Blank	Total/NA	Water	6020A	55716

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Metals (Continued)

Analysis Batch: 56298 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-55716/2-A	Lab Control Sample	Total/NA	Water	6020A	55716

Analysis Batch: 56483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-18	GW243-425-204	Total Recoverable	Water	6010C	55546
MB 410-55546/1-A	Method Blank	Total Recoverable	Water	6010C	55546
LCS 410-55546/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55546

Analysis Batch: 56592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-19	GW015-204	Dissolved	Water	6010C	55843
MB 410-55843/1-A	Method Blank	Total/NA	Water	6010C	55843
LCS 410-55843/2-A	Lab Control Sample	Total/NA	Water	6010C	55843

Analysis Batch: 56799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-3	GW224-204	Total/NA	Water	6020A	55268
410-17330-5	GW213-204	Total/NA	Water	6020A	55268
410-17330-6	GW214-204	Total/NA	Water	6020A	55268
410-17330-7	GW215-204	Total/NA	Water	6020A	55268
410-17330-9	GW004-204	Total/NA	Water	6020A	55268
410-17330-10	GW100-204	Total/NA	Water	6020A	55268
410-17330-14	GW247-450-204	Total/NA	Water	6020A	55268
410-17330-15	GW244-445-204	Total/NA	Water	6020A	55268
MB 410-55268/1-A	Method Blank	Total/NA	Water	6020A	55268
LCS 410-55268/2-A	Lab Control Sample	Total/NA	Water	6020A	55268

Analysis Batch: 56801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	6020A	55014
410-17330-2	GW223-204	Total/NA	Water	6020A	55014
MB 410-55014/1-A	Method Blank	Total/NA	Water	6020A	55014
LCS 410-55014/2-A	Lab Control Sample	Total/NA	Water	6020A	55014

Analysis Batch: 56883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Dissolved	Water	6010C	55526
MB 410-55526/1-A	Method Blank	Total/NA	Water	6010C	55526
LCS 410-55526/2-A	Lab Control Sample	Total/NA	Water	6010C	55526
410-17330-1 MS	GW222-204	Dissolved	Water	6010C	55526
410-17330-1 DU	GW222-204	Dissolved	Water	6010C	55526

Analysis Batch: 57078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-2	GW223-204	Dissolved	Water	6010C	55531
410-17330-3	GW224-204	Dissolved	Water	6010C	55531
410-17330-5	GW213-204	Dissolved	Water	6010C	55531
410-17330-6	GW214-204	Dissolved	Water	6010C	55531
410-17330-7	GW215-204	Dissolved	Water	6010C	55531
410-17330-9	GW004-204	Dissolved	Water	6010C	55531
410-17330-10	GW100-204	Dissolved	Water	6010C	55531

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Metals (Continued)

Analysis Batch: 57078 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-11	GW099-204	Dissolved	Water	6010C	55531
410-17330-13	GW064-204	Dissolved	Water	6010C	55531
410-17330-14	GW247-450-204	Dissolved	Water	6010C	55531
410-17330-15	GW244-445-204	Dissolved	Water	6010C	55531
410-17330-17	GW063-204	Dissolved	Water	6010C	55531
410-17330-18	GW243-425-204	Dissolved	Water	6010C	55531
MB 410-55531/1-A	Method Blank	Total/NA	Water	6010C	55531
LCS 410-55531/2-A	Lab Control Sample	Total/NA	Water	6010C	55531

Analysis Batch: 57495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total Recoverable	Water	6010C	55166
410-17330-2	GW223-204	Total Recoverable	Water	6010C	55166
410-17330-3	GW224-204	Total Recoverable	Water	6010C	55166
410-17330-5	GW213-204	Total Recoverable	Water	6010C	55166
410-17330-6	GW214-204	Total Recoverable	Water	6010C	55166
410-17330-7	GW215-204	Total Recoverable	Water	6010C	55166
410-17330-9	GW004-204	Total Recoverable	Water	6010C	55166
410-17330-10	GW100-204	Total Recoverable	Water	6010C	55166
410-17330-11	GW099-204	Total Recoverable	Water	6010C	55166
410-17330-13	GW064-204	Total Recoverable	Water	6010C	55166
410-17330-14	GW247-450-204	Total Recoverable	Water	6010C	55166
410-17330-15	GW244-445-204	Total Recoverable	Water	6010C	55166
410-17330-17	GW063-204	Total Recoverable	Water	6010C	55166
410-17330-19	GW015-204	Total Recoverable	Water	6010C	55166
MB 410-55166/1-A	Method Blank	Total Recoverable	Water	6010C	55166
LCS 410-55166/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55166
410-17330-19 MS	GW015-204	Total Recoverable	Water	6010C	55166
410-17330-19 MSD	GW015-204	Total Recoverable	Water	6010C	55166
410-17330-19 DU	GW015-204	Total Recoverable	Water	6010C	55166

Prep Batch: 57800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-13	GW064-204	Dissolved	Water	Non-Digest Prep	
410-17330-17	GW063-204	Dissolved	Water	Non-Digest Prep	
MB 410-57800/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-57800/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-17330-13 MS	GW064-204	Dissolved	Water	Non-Digest Prep	
410-17330-13 MSD	GW064-204	Dissolved	Water	Non-Digest Prep	
410-17330-13 DU	GW064-204	Dissolved	Water	Non-Digest Prep	

Analysis Batch: 57876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-13	GW064-204	Dissolved	Water	6010C	57800
410-17330-17	GW063-204	Dissolved	Water	6010C	57800
MB 410-57800/1-A	Method Blank	Total/NA	Water	6010C	57800
LCS 410-57800/2-A	Lab Control Sample	Total/NA	Water	6010C	57800
410-17330-13 MS	GW064-204	Dissolved	Water	6010C	57800
410-17330-13 MSD	GW064-204	Dissolved	Water	6010C	57800
410-17330-13 DU	GW064-204	Dissolved	Water	6010C	57800

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Metals

Analysis Batch: 58203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total Recoverable	Water	6010C	55166
410-17330-2	GW223-204	Total Recoverable	Water	6010C	55166
410-17330-3	GW224-204	Total Recoverable	Water	6010C	55166
410-17330-5	GW213-204	Total Recoverable	Water	6010C	55166
410-17330-6	GW214-204	Total Recoverable	Water	6010C	55166
410-17330-7	GW215-204	Total Recoverable	Water	6010C	55166
410-17330-9	GW004-204	Total Recoverable	Water	6010C	55166
410-17330-10	GW100-204	Total Recoverable	Water	6010C	55166
410-17330-11	GW099-204	Total Recoverable	Water	6010C	55166
410-17330-13	GW064-204	Total Recoverable	Water	6010C	55166
410-17330-14	GW247-450-204	Total Recoverable	Water	6010C	55166
410-17330-15	GW244-445-204	Total Recoverable	Water	6010C	55166
410-17330-17	GW063-204	Total Recoverable	Water	6010C	55166
410-17330-19	GW015-204	Total Recoverable	Water	6010C	55166
LCS 410-55166/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55166
410-17330-19 MS	GW015-204	Total Recoverable	Water	6010C	55166
410-17330-19 MSD	GW015-204	Total Recoverable	Water	6010C	55166
410-17330-19 DU	GW015-204	Total Recoverable	Water	6010C	55166

General Chemistry

Analysis Batch: 55961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	2320B-2011	
410-17330-2	GW223-204	Total/NA	Water	2320B-2011	
410-17330-3	GW224-204	Total/NA	Water	2320B-2011	
410-17330-5	GW213-204	Total/NA	Water	2320B-2011	
410-17330-6	GW214-204	Total/NA	Water	2320B-2011	
410-17330-7	GW215-204	Total/NA	Water	2320B-2011	
410-17330-9	GW004-204	Total/NA	Water	2320B-2011	
410-17330-10	GW100-204	Total/NA	Water	2320B-2011	
410-17330-11	GW099-204	Total/NA	Water	2320B-2011	
410-17330-13	GW064-204	Total/NA	Water	2320B-2011	
410-17330-14	GW247-450-204	Total/NA	Water	2320B-2011	
410-17330-15	GW244-445-204	Total/NA	Water	2320B-2011	
410-17330-17	GW063-204	Total/NA	Water	2320B-2011	
410-17330-18	GW243-425-204	Total/NA	Water	2320B-2011	
410-17330-19	GW015-204	Total/NA	Water	2320B-2011	
MB 410-55961/15	Method Blank	Total/NA	Water	2320B-2011	
MB 410-55961/44	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-55961/16	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-55961/45	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 63338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-1	GW222-204	Total/NA	Water	353.2	
410-17330-2	GW223-204	Total/NA	Water	353.2	
410-17330-3	GW224-204	Total/NA	Water	353.2	
410-17330-5	GW213-204	Total/NA	Water	353.2	
410-17330-6	GW214-204	Total/NA	Water	353.2	
410-17330-7	GW215-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

General Chemistry (Continued)

Analysis Batch: 63338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17330-9	GW004-204	Total/NA	Water	353.2	
410-17330-10	GW100-204	Total/NA	Water	353.2	
410-17330-11	GW099-204	Total/NA	Water	353.2	
410-17330-13	GW064-204	Total/NA	Water	353.2	
410-17330-14	GW247-450-204	Total/NA	Water	353.2	
410-17330-15	GW244-445-204	Total/NA	Water	353.2	
410-17330-17	GW063-204	Total/NA	Water	353.2	
410-17330-18	GW243-425-204	Total/NA	Water	353.2	
410-17330-19	GW015-204	Total/NA	Water	353.2	
MB 410-63338/20	Method Blank	Total/NA	Water	353.2	
MB 410-63338/53	Method Blank	Total/NA	Water	353.2	
LCS 410-63338/21	Lab Control Sample	Total/NA	Water	353.2	
LCS 410-63338/54	Lab Control Sample	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW222-204

Lab Sample ID: 410-17330-1

Date Collected: 10/14/20 14:50

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 15:39	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/24/20 23:34	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/17/20 18:48	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55491	10/17/20 19:42	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 12:31	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55526	10/17/20 11:24	UJLA	ELLE
Dissolved	Analysis	6010C		1	56883	10/21/20 09:47	UPJE	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 14:38	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 15:57	UCIG	ELLE
Total/NA	Prep	3020A			55014	10/15/20 22:16	UJLA	ELLE
Total/NA	Analysis	6020A		1	56801	10/20/20 19:22	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 21:47	JB	ELLE
Total/NA	Analysis	353.2		2	63338	11/07/20 11:46	KGQ6	ELLE

Client Sample ID: GW223-204

Lab Sample ID: 410-17330-2

Date Collected: 10/14/20 14:30

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 16:02	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/24/20 23:51	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/17/20 20:00	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55491	10/17/20 20:18	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 12:49	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 11:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 18:41	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 14:41	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:00	UCIG	ELLE
Total/NA	Prep	3020A			55014	10/15/20 22:16	UJLA	ELLE
Total/NA	Analysis	6020A		1	56801	10/20/20 19:24	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 21:54	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 11:47	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW224-204

Lab Sample ID: 410-17330-3

Date Collected: 10/14/20 14:10

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 16:23	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 00:41	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/17/20 20:36	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 13:08	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 11:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 18:44	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 14:44	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:03	UCIG	ELLE
Total/NA	Prep	3020A			55268	10/16/20 12:22	UJLA	ELLE
Total/NA	Analysis	6020A		1	56799	10/20/20 20:20	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/17/20 00:28	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 11:48	KGQ6	ELLE

Client Sample ID: TB204-44

Lab Sample ID: 410-17330-4

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 13:50	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 00:58	AC3T	ELLE

Client Sample ID: GW213-204

Lab Sample ID: 410-17330-5

Date Collected: 10/14/20 13:30

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 16:46	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 01:15	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/17/20 21:13	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55491	10/17/20 21:31	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 13:26	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 11:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 18:48	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 14:47	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:06	UCIG	ELLE
Total/NA	Prep	3020A			55268	10/16/20 12:22	UJLA	ELLE
Total/NA	Analysis	6020A		1	56799	10/20/20 20:22	V5SW	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW213-204

Lab Sample ID: 410-17330-5

Date Collected: 10/14/20 13:30

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1	55961	10/17/20 00:22	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 11:50	KGQ6	ELLE

Client Sample ID: GW214-204

Lab Sample ID: 410-17330-6

Date Collected: 10/14/20 13:10

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 17:08	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 01:31	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/17/20 21:49	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55491	10/17/20 22:07	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 13:44	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 11:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 18:51	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 14:50	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:09	UCIG	ELLE
Total/NA	Prep	3020A			55268	10/16/20 12:22	UJLA	ELLE
Total/NA	Analysis	6020A		1	56799	10/20/20 20:24	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 21:06	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 11:51	KGQ6	ELLE

Client Sample ID: GW215-204

Lab Sample ID: 410-17330-7

Date Collected: 10/14/20 12:45

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 17:30	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 01:48	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/17/20 22:25	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 14:38	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 11:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 18:54	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 14:53	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:12	UCIG	ELLE
Total/NA	Prep	3020A			55268	10/16/20 12:22	UJLA	ELLE
Total/NA	Analysis	6020A		1	56799	10/20/20 20:26	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 21:28	JB	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW215-204

Lab Sample ID: 410-17330-7

Date Collected: 10/14/20 12:45

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	63338	11/07/20 11:54	KGQ6	ELLE

Client Sample ID: TB204-45

Lab Sample ID: 410-17330-8

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 14:11	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 02:05	AC3T	ELLE

Client Sample ID: GW004-204

Lab Sample ID: 410-17330-9

Date Collected: 10/14/20 10:39

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 17:52	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 02:21	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/17/20 23:37	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 14:56	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 11:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 18:58	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 15:02	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:15	UCIG	ELLE
Total/NA	Prep	3020A			55268	10/16/20 12:22	UJLA	ELLE
Total/NA	Analysis	6020A		1	56799	10/20/20 20:28	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 21:41	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 11:55	KGQ6	ELLE

Client Sample ID: GW100-204

Lab Sample ID: 410-17330-10

Date Collected: 10/14/20 12:23

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 18:15	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 02:38	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/17/20 17:53	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 15:14	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 11:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 19:07	UCIG	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW100-204

Lab Sample ID: 410-17330-10

Date Collected: 10/14/20 12:23

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 15:05	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:19	UCIG	ELLE
Total/NA	Prep	3020A			55268	10/16/20 12:22	UJLA	ELLE
Total/NA	Analysis	6020A		1	56799	10/20/20 20:31	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 21:13	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 11:57	KGQ6	ELLE

Client Sample ID: GW099-204

Lab Sample ID: 410-17330-11

Date Collected: 10/14/20 08:49

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 18:37	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 02:55	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55491	10/18/20 00:50	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56900	10/21/20 15:33	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 11:57	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 19:11	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 15:08	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:22	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:21	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/17/20 00:35	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 11:58	KGQ6	ELLE

Client Sample ID: TB204-46

Lab Sample ID: 410-17330-12

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 14:33	TQ4J	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 03:12	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW064-204

Lab Sample ID: 410-17330-13

Date Collected: 10/14/20 09:05

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		5	58940	10/27/20 19:42	TQ4J	ELLE
Total/NA	Analysis	8260C DOD	DL	50	58940	10/27/20 20:04	TQ4J	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 04:35	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55487	10/17/20 11:21	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	59324	10/28/20 11:52	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57800	10/23/20 08:23	UAMX	ELLE
Dissolved	Analysis	6010C		1	57876	10/23/20 10:21	SB	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 12:00	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 19:14	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 15:11	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:31	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:23	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 20:40	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 12:02	KGQ6	ELLE

Client Sample ID: GW247-450-204

Lab Sample ID: 410-17330-14

Date Collected: 10/14/20 11:30

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 18:59	TQ4J	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 05:09	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55487	10/17/20 07:44	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 12:00	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 19:18	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 15:14	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:35	UCIG	ELLE
Total/NA	Prep	3020A			55268	10/16/20 12:22	UJLA	ELLE
Total/NA	Analysis	6020A		1	56799	10/20/20 20:29	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 21:35	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 13:00	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW244-445-204

Lab Sample ID: 410-17330-15

Date Collected: 10/14/20 08:25

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 19:21	TQ4J	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 05:42	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55487	10/17/20 08:20	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	55487	10/17/20 08:38	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 12:00	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 19:21	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 15:17	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:38	UCIG	ELLE
Total/NA	Prep	3020A			55268	10/16/20 12:22	UJLA	ELLE
Total/NA	Analysis	6020A		1	56799	10/20/20 20:14	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 20:53	JB	ELLE
Total/NA	Analysis	353.2		2	63338	11/07/20 13:01	KGQ6	ELLE

Client Sample ID: TB204-43

Lab Sample ID: 410-17330-16

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 14:55	TQ4J	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 05:59	AC3T	ELLE

Client Sample ID: GW063-204

Lab Sample ID: 410-17330-17

Date Collected: 10/14/20 10:05

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		10	58674	10/27/20 06:29	MJ8R	ELLE
Total/NA	Analysis	8260C DOD	DL	100	58674	10/27/20 06:50	MJ8R	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 06:16	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55487	10/17/20 09:51	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	59324	10/28/20 12:09	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57800	10/23/20 08:23	UAMX	ELLE
Dissolved	Analysis	6010C		1	57876	10/23/20 10:42	SB	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 12:00	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 19:24	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 15:20	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 16:41	UCIG	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: GW063-204

Lab Sample ID: 410-17330-17

Date Collected: 10/14/20 10:05

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:28	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 20:32	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 12:08	KGQ6	ELLE

Client Sample ID: GW243-425-204

Lab Sample ID: 410-17330-18

Date Collected: 10/13/20 11:40

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58674	10/27/20 00:47	MJ8R	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 04:02	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55487	10/17/20 10:09	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55531	10/17/20 12:00	UJLA	ELLE
Dissolved	Analysis	6010C		1	57078	10/21/20 19:28	UCIG	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 13:59	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55995	10/19/20 14:52	UCIG	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 13:59	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56483	10/20/20 15:13	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:25	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 20:47	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 12:09	KGQ6	ELLE

Client Sample ID: GW015-204

Lab Sample ID: 410-17330-19

Date Collected: 10/13/20 14:50

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58674	10/27/20 01:07	MJ8R	ELLE
Total/NA	Prep	8011			58086	10/24/20 07:08	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 04:19	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	55487	10/17/20 10:45	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55843	10/19/20 09:27	UAMX	ELLE
Dissolved	Analysis	6010C		1	56592	10/20/20 20:20	UCIG	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	57495	10/22/20 13:56	SB	ELLE
Total Recoverable	Prep	3005A			55166	10/16/20 08:56	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58203	10/23/20 15:19	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:26	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	55961	10/16/20 21:00	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 12:11	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Client Sample ID: TB204-42

Lab Sample ID: 410-17330-20

Date Collected: 10/14/20 12:00

Matrix: Water

Date Received: 10/15/20 10:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	58940	10/27/20 15:17	TQ4J	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 06:32	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC



Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-17330-1	GW222-204	Water	10/14/20 14:50	10/15/20 10:46	
410-17330-2	GW223-204	Water	10/14/20 14:30	10/15/20 10:46	
410-17330-3	GW224-204	Water	10/14/20 14:10	10/15/20 10:46	
410-17330-4	TB204-44	Water	10/14/20 12:00	10/15/20 10:46	
410-17330-5	GW213-204	Water	10/14/20 13:30	10/15/20 10:46	
410-17330-6	GW214-204	Water	10/14/20 13:10	10/15/20 10:46	
410-17330-7	GW215-204	Water	10/14/20 12:45	10/15/20 10:46	
410-17330-8	TB204-45	Water	10/14/20 12:00	10/15/20 10:46	
410-17330-9	GW004-204	Water	10/14/20 10:39	10/15/20 10:46	
410-17330-10	GW100-204	Water	10/14/20 12:23	10/15/20 10:46	
410-17330-11	GW099-204	Water	10/14/20 08:49	10/15/20 10:46	
410-17330-12	TB204-46	Water	10/14/20 12:00	10/15/20 10:46	
410-17330-13	GW064-204	Water	10/14/20 09:05	10/15/20 10:46	
410-17330-14	GW247-450-204	Water	10/14/20 11:30	10/15/20 10:46	
410-17330-15	GW244-445-204	Water	10/14/20 08:25	10/15/20 10:46	
410-17330-16	TB204-43	Water	10/14/20 12:00	10/15/20 10:46	
410-17330-17	GW063-204	Water	10/14/20 10:05	10/15/20 10:46	
410-17330-18	GW243-425-204	Water	10/13/20 11:40	10/15/20 10:46	
410-17330-19	GW015-204	Water	10/13/20 14:50	10/15/20 10:46	
410-17330-20	TB204-42	Water	10/14/20 12:00	10/15/20 10:46	

Eurofins Lancaster Laboratories Env, LLC



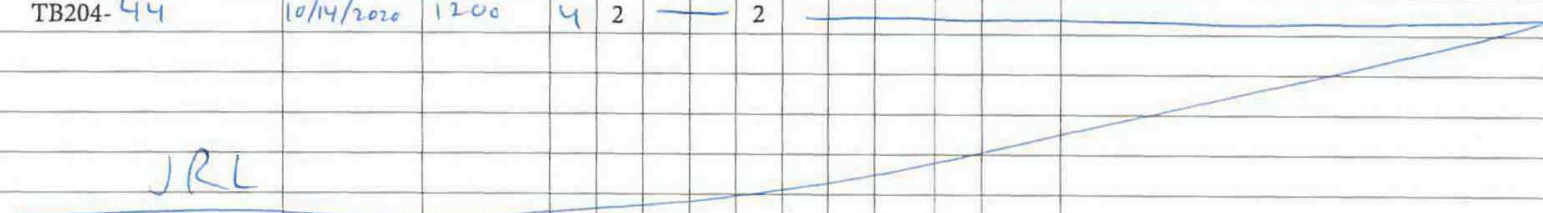
410-17330 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-222-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)						
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258														
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8280C)	BTEX (8280C)	BTEXN (8280C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM4230B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW222-204	10-14-2020	1750	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx <i>7717 9787 1257</i>						
RELINQUISHED BY: <i>G. Begaye</i>										RECEIVED BY: <i>Nicole Reiff</i>						
DATE: 10-14-2020										TIME: 1745						
Printed Name and Signature: <i>G. Begaye</i>										Printed Name and Signature: <i>Nicole Reiff</i>						
Printed Name and Signature: <i>G. Begaye</i>										Printed Name and Signature: <i>Nicole Reiff</i>						
Printed Name and Signature: <i>G. Begaye</i>										Printed Name and Signature: <i>Nicole Reiff</i>						
Printed Name and Signature: <i>G. Begaye</i>										Printed Name and Signature: <i>Nicole Reiff</i>						

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-223-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmilh@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mg) (6010C/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Comments	
1	GW223-204	10-14-2020	1430	10	3		2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Beguy</i> TB204-44 RELINQUISHED BY: _____ DATE: _____ TIME: _____ COURIER AND SHIPPING NUMBER: FedEx 7717 9787 1237 RECEIVED BY: _____ DATE: _____ TIME: _____ Printed Name and Signature: <i>Gaherfor Beguy</i> <i>10-14-2020 1745</i> Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: <i>Nicole Reiff</i> <i>10/15/20 1045</i>															

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-224-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity, Total, Carbonate, and Bicarbonate (5M2320B)	Carbon Dioxide (R5K-175)	Methane (R5K-175)	COMMENTS
1	GW224-204	10-14-2020	1410	10	3	—	2	1	1*	1	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 7717 9787 1237						
RELINQUISHED BY: _____ DATE: _____ TIME: _____										RECEIVED BY: _____ DATE: _____ TIME: _____						
Printed Name and Signature: <i>Gabriel Begaye</i>										Printed Name and Signature: _____						
Printed Name and Signature: _____										Printed Name and Signature: _____						
Printed Name and Signature: _____										Printed Name and Signature: <i>Nicole Reiff</i>						

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-44							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020 QUARTER: 4					
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
		ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	EDS (8011)	Total As, Pb, Cu, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS
1	TB204-44	10/14/2020	1200	4	2		2						
2													
3													
4													
5	JRL												
Associated with: GW222-204 GW223-204 GW224-204													
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7717-9637-6490 7787 1237									
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME		
Printed Name and Signature: J Livingston				10/14/2020	1745	Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature:							
Printed Name and Signature:						Printed Name and Signature: Nicole Reiff				10/15/20	1045		

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EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-213-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RISK-175)	Comments	
1	GW213-204	10-14-2020	1330	10	3	—	2	1	1*	1	1	1	1		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 7717 9787 1248											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: G. Begaye				10-14-2020		1745		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Nicole Reith				10/15/20		1045	

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-214-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs	(B260C) BTEX	(B260C) BTEXN	EDB	(B011) Total (As,Pb,Cu,K,Na,Mg)	(B020A/B010C) Dissolved Fe, Mn	(B010C) Chloride, bromide, sulfate	(B000) Nitrate-Nitrite	(B532) Alkalinity (Total, Carbonate, and Bicarbonate)	(B542320B) Carbon Dioxide	(B5K-175) Methane	COMMENTS
1	GW214-204	10-14-2020	1310	10	3	←		2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): G-Begaye RELINQUISHED BY: Gabeon Begaye Printed Name and Signature: Gabeon Begaye Printed Name and Signature: [Signature] Printed Name and Signature: [Signature] COURIER AND SHIPPING NUMBER: FedEx 7717 9787 1248 RECEIVED BY: Nicole Riitt Printed Name and Signature: Nicole Riitt Printed Name and Signature: [Signature] Printed Name and Signature: [Signature] DATE: 10-14-2020 TIME: 1745 DATE: 10/15/20 TIME: 1046																

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-215-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, K, Na, Mg) (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5512.20B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS
1	GW215-204	10-14-2020	1245	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i> TB204-45 RELINQUISHED BY: _____ DATE: _____ TIME: _____ COURIER AND SHIPPING NUMBER: FedEx 7717 9787 1248 RECEIVED BY: _____ DATE: _____ TIME: _____ Printed Name and Signature: <i>Gabeon Begaye</i> <i>G. Begaye</i> 10-14-2020 1245 Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: <i>Nicole Reiff</i> 10/15/20 1046															

cm

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-45	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4	

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8250C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A, 6010C)	Dissolved Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	(SM2320B) Alkalinity (Total, Carbonate, and Bicarbonate)			
1	TB204-45	10/14/2020	1200	4	2			2								
2																
3																
4																
5																

Associated with:
 GW 213-204
 GW 214-204
 GW 215-204

JRL

SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7717-19637-6949-9787 1248			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: J Livingston John Z		10/14/2020	1745	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature: Nicole Reith NR		10/15/20	1046

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-004-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020					
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Hg, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS	
1	GW004-204	10-14-2020	1039	10	3	—	—	2	1	1*	1	1	1				
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
Pump SN: 1807B-710 SAMPLER(S): <u>D. Schneelk</u> RELINQUISHED BY: <u>D. Schneelk</u> DATE: <u>10-14-2020</u> TIME: <u>1745</u> PRINTED NAME AND SIGNATURE: <u>D. Schneelk</u> PRINTED NAME AND SIGNATURE: _____ PRINTED NAME AND SIGNATURE: _____ PRINTED NAME AND SIGNATURE: _____ PRINTED NAME AND SIGNATURE: <u>Nicole Reiff</u> DATE: <u>10/15/20</u> TIME: <u>1037</u>																	

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-100-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)								
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258																
ANALYSIS REQUIRED (Specify number of bottles)																		
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(B260C)	BTEX	(B260C)	ED8	Total (As, Pb, Cd, Cr, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide	(RSK-175) Methane	COMMENTS
1	GW100-204	10-14-2020	1223	10	3	—	2	1	1*	1	1	1	1	1	1	1	1	
2																		
3																		
4																		
5																		
6																		
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																		
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk DATE: 10-14-2020 TIME: 1745 COURIER AND SHIPPING NUMBER: FedEx 7717 9787 1259 RECEIVED BY: Nicole Reiff DATE: 10/15/20 TIME: 1037																		

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-099-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, Cr, Ni, Mn) (6011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	COMMENTS	
1	GW099-204	10-14-2020	0849	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-710 SAMPLER(S): D. Schmeck RELINQUISHED BY: D. Schmeck 10-14-2020 1745 DATE: 10-14-2020 TIME: 1745 COURIER AND SHIPPING NUMBER: FedEx 7717 9787 1259 RECEIVED BY: Nicole Reiff 10/15/20 1037 DATE: 10/15/20 TIME: 1037															

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EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-46	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4					
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2250C)	BTEX (2250C)	BTEXN (2250C)	EDB (6011)	Dissolved Fe, Mn (6020A/610C)	Total As, Pb, Cd, K, Na, Mg (6011)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS	
1	TB204-46	10/14/2020	1200	4	2	—	—	2	—	—	—	—	—	JRL	
2															
3															
4															
5															
Associated with: GW099-204 GW004-204 GW100-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7717-9637 6874 1787 1259											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston John 2c				10/14/2020	1745	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Reiff				10/15/20	1037				

JRL

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-064-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)				
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total Diss. (6020A/6010C) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (354.2/208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW064-204	10-14-2020	0905	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begaye</i> RELINQUISHED BY: _____ DATE: _____ TIME: _____ COURIER AND SHIPPING NUMBER: FedEx <i>7717 9787 1726</i> TB204- <i>43</i> RECEIVED BY: _____ DATE: _____ TIME: _____ Printed Name and Signature: <i>Coalbreton Begaye</i> <i>[Signature]</i> 10-14-2020 1745 Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: <i>Nicole Reiff</i> <i>[Signature]</i> 10/15/20 1029																

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1025

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Amanda Smith: asmith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-247-450-204

YEAR:
2020

QUARTER:
4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RISK-175)	Methane (RISK-175)				
1	GW247-450-204	10-14-2020	1130	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
G. Beyse

COURIER AND SHIPPING NUMBER:
FedEx 7717 9787 1226

RELINQUISHED BY:
Gabe Breyse

DATE
10-14-2020

TIME
1745

RECEIVED BY:
Nicole Reitt

DATE
10/15/20

TIME
1029

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

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11/17/2020
March 2021

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-244-445-204						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020								
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)								
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
ANALYSIS REQUIRED (Specify number of bottles)																				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M220B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS				
1	GW244-445-204	10-14-2020	0825	10	3	—	2	1	1*	1	1	1	1							
2																				
3																				
4																				
5																				
6																				
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																				
SAMPLER(S): G. Begaye										COURIER AND SHIPPING NUMBER: FedEx 7717 9787 1226										
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:			DATE		TIME	
Printed Name and Signature: G. Begaye										10-14-2020		1745		Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature: Nicole Reiff			10/15/20		1029	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

COC NUMBER
COC-TB204-43

YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	BTEXN (8250C)	EDS (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-43	10/14/2020	1200	4	2			2							JRL
2															
3															
4															
5															

Associated with:
GW064-204
GW244-445-204
GW247-450-204

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 771749637 67329787 1226

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
J Livingston [Signature]	10/14/2020	1745			
			Nicole Reiff [Signature]	10/15/20	1029

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-063-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	(8260C) BTEXN	ED8 (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (55123208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)		
1	GW063-204	10-14-2020	1005	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Begue*

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5438**

TB204- 42

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

Printed Name and Signature: *G. Begue* 10-14-2020 1745

Printed Name and Signature: *Wesley Miller* 10/15/2020 1046

qm

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-243-425-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	
1	GW243-425-204	10-13-2020	1140	10	3	—	2	1	1*	1	1	1			
2															
3															
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
G. Begue

COURIER AND SHIPPING NUMBER:
FedEx 8155 2826 5438

RELINQUISHED BY:
G. Begue

DATE
10-13-2020

TIME
1745

RECEIVED BY:
Wesley Miller

DATE
10/15/2020

TIME
1046

Printed Name and Signature:
G. Begue

Printed Name and Signature:
Wesley Miller

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-015-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0) (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RISK-175)	Methane (RISK-175)	
1	GW015-204	10-13-2020	1450	10	3	—	2	1	1*	1	1	1				
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4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **G. Begaye**

COURIER AND SHIPPING NUMBER: **FedEx 8155 2826 5438**

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

Printed Name and Signature: **Galvin Begaye** DATE: **10-13-2020** TIME: **1745**

Printed Name and Signature: **Wesley Miller** DATE: **10/15/2020** TIME: **1006**

qem

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA

Amanda Smith: asmith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

COC NUMBER
COC-TB204-42

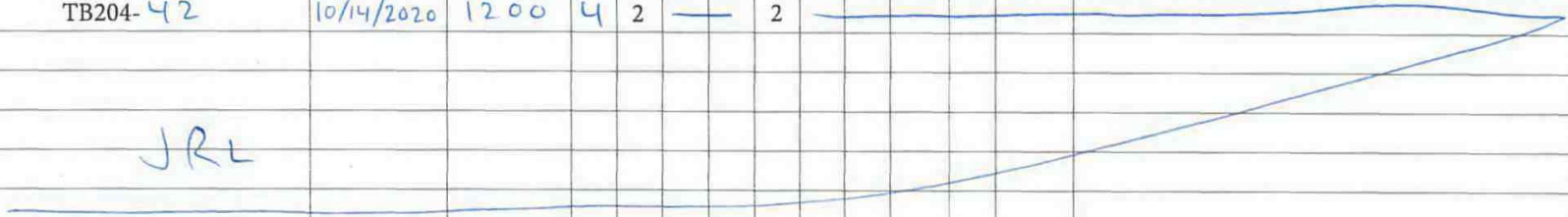
YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEN (8260C)	ED8 (8011)	Total As, Pb, Cu, K, Na, Mg (8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-42	10/14/2020	1200	4	2			2							
2															
3															
4	JRL														
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Associated with:
GW015-204
GW243-425-204
GW063-204

SAMPLER(S): J Livingston

RELINQUISHED BY:

DATE

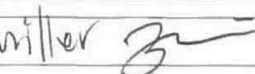
TIME

COURIER AND SHIPPING NUMBER: FedEx 8155 2826 5438

RECEIVED BY:

DATE

TIME

Printed Name and Signature: J Livingston 	10/14/2020	1745	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: Wesley Miller 	10/15/2020	1046

qcm

Page 122 of 123

11/17/2020

March 2021

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

F-2-1086

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-17330-1

Login Number: 17330**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-17392-1

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/12/2020 11:33:23 AM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Darlene Bandy
Project Manager I
11/12/2020 11:33:23 AM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Job ID: 410-17392-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17392-1

Receipt

The samples were received on 10/16/2020 10:39 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.6° C, 0.9° C, 0.9° C and 1.0° C.

GC/MS VOA

Method 8260C DOD: The response for Chloromethane and Vinyl chloride in the continuing calibration verification standard are outside the QC acceptance limits. Reanalysis cannot be performed within method hold time, therefore the data is reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW072-204 (410-17392-1), GW101-204 (410-17392-2), GW245-460-204 (410-17392-3), TB204-47 (410-17392-4), GW025-204 (410-17392-5), GW088-204 (410-17392-6), GW240-449-204 (410-17392-7), TB204-48 (410-17392-8), GW051-204 (410-17392-9), GW051-604 (410-17392-10), GW102-204 (410-17392-11), TB204-49 (410-17392-12), GW048-204 (410-17392-13), GW061-204 (410-17392-14), GW081-204 (410-17392-15) and TB204-50 (410-17392-16). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-59362 recovered above the upper control limit for Chloromethane, Bromomethane, Chloroethane, Trichlorofluoromethane and Vinyl chloride. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The response for Tetrachloroethene in the continuing calibration verification (CCV) marginally exceeds the DoD acceptance criteria on batch 410-59362. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The response for 2-Butanone, 2-Hexanone, Acetone, Acrolein, and Acrylonitrile in the continuing calibration verification (CCV) marginally exceeds, low-biased, the DoD acceptance criteria on batch 410-59890. Due to the marginal nature of the outlier(s), the data is reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB204-48 (410-17392-8), GW051-604 (410-17392-10), GW102-204 (410-17392-11), GW048-204 (410-17392-13), GW061-204 (410-17392-14) and GW081-204 (410-17392-15). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The response for Hexachlorobutadiene in the initial calibration verification associated with batch 410-59890 marginally exceeds the DoD acceptance criteria. Due to the marginal nature of the outlier(s), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 353.2: The reference method requires samples to be preserved to a pH of <2. The following sample(s) were received with insufficient preservation at a pH of 3: GW072-204 (410-17392-1). The sample(s) were preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Job ID: 410-17392-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)**Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW072-204

Lab Sample ID: 410-17392-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.7	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Chloride	25	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	35	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	46		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	6.5		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.3		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Manganese	0.033		0.010	0.0052	0.0031	mg/L	1		6010C	Recoverable Dissolved
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.094	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW101-204

Lab Sample ID: 410-17392-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.3	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	56	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	140	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	77		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	12		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	3.3		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	33		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00093	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Recoverable Total/NA
Bicarbonate Alkalinity as CaCO3	94		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	94		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.1		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: GW245-460-204

Lab Sample ID: 410-17392-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	62	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	72	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	68		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	9.4		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	27		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00088	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Recoverable Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW245-460-204 (Continued)

Lab Sample ID: 410-17392-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.8		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: TB204-47

Lab Sample ID: 410-17392-4

No Detections.

Client Sample ID: GW025-204

Lab Sample ID: 410-17392-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.4	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	56	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	61	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	53		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	7.4		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	5.1		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	30		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00072	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00049	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	91		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	91		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.7		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW088-204

Lab Sample ID: 410-17392-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.056		0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	14	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	34	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	44		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	6.0		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.3		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Arsenic	0.00086	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	130		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW240-449-204

Lab Sample ID: 410-17392-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.71	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Bromide	2.8	D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW240-449-204 (Continued)

Lab Sample ID: 410-17392-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	180	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	230	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	160		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	23		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	39		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00089	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	88		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	88		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	5.5		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: TB204-48

Lab Sample ID: 410-17392-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

Client Sample ID: GW051-204

Lab Sample ID: 410-17392-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromide	1.7	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	84	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	98	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	73		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	10		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	29		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00077	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	80		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	80		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.4		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: GW051-604

Lab Sample ID: 410-17392-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Bromide	1.8	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	84	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	110	D	50	45	15	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	73		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	10		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW051-604 (Continued)

Lab Sample ID: 410-17392-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Sodium	29		1.0	0.50	0.24	mg/L	1		6010C	Total
Arsenic	0.00072	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	79		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	79	J1	8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	2.5		0.20	0.18	0.080	mg/L	2		353.2	Total/NA

Client Sample ID: GW102-204

Lab Sample ID: 410-17392-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	29	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	33		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	5.0		0.10	0.075	0.040	mg/L	1		6010C	Total
Potassium	2.0		0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00046	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.39		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-49

Lab Sample ID: 410-17392-12

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.82	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA

Client Sample ID: GW048-204

Lab Sample ID: 410-17392-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Toluene	0.87	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	9.1	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	30	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	34		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	4.9		0.10	0.075	0.040	mg/L	1		6010C	Total
Potassium	2.0		0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	22		1.0	0.50	0.24	mg/L	1		6010C	Total
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00091		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW048-204 (Continued)

Lab Sample ID: 410-17392-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Nitrate Nitrite as N	0.45		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW061-204

Lab Sample ID: 410-17392-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Toluene	0.40	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	8.7	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	26	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	31		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.4		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	1.8		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00015	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.047	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW081-204

Lab Sample ID: 410-17392-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Toluene	0.49	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	7.2	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	24	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	31		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.5		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	1.8		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0011	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.10		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-50

Lab Sample ID: 410-17392-16

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW072-204

Lab Sample ID: 410-17392-1

Date Collected: 10/15/20 11:15

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:26	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 15:26	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:26	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:26	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:26	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:26	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 15:26	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 15:26	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/28/20 15:26	1
Acetone	5.7	J	20	2.0	0.70	ug/L		10/28/20 15:26	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 15:26	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 15:26	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 15:26	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 15:26	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 15:26	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 15:26	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW072-204

Lab Sample ID: 410-17392-1

Date Collected: 10/15/20 11:15

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:26	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:26	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:26	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 15:26	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:26	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:26	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 15:26	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:26	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/28/20 15:26	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/28/20 15:26	1
Dibromofluoromethane (Surr)	104		80 - 119		10/28/20 15:26	1
Toluene-d8 (Surr)	98		89 - 112		10/28/20 15:26	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 07:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	66		46 - 136	10/24/20 07:38	10/25/20 07:23	1
1,1,2,2-Tetrachloroethane (2C)	69		46 - 136	10/24/20 07:38	10/25/20 07:23	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/20/20 15:47	5
Chloride	25	D	2.0	1.5	1.0	mg/L		10/20/20 15:47	5
Sulfate	35	D	5.0	4.5	1.5	mg/L		10/20/20 15:47	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	46		0.20	0.15	0.096	mg/L		10/25/20 12:18	1
Magnesium	6.5		0.10	0.075	0.040	mg/L		10/25/20 12:18	1
Potassium	2.3		0.50	0.38	0.20	mg/L		10/27/20 10:37	1
Sodium	24		1.0	0.50	0.24	mg/L		10/27/20 10:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 19:43	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW072-204

Lab Sample ID: 410-17392-1

Date Collected: 10/15/20 11:15

Matrix: Water

Date Received: 10/16/20 09:48

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.033		0.010	0.0052	0.0031	mg/L		10/20/20 19:43	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 21:34	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:34	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	8.0	mg/L		10/21/20 04:12	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 04:12	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	8.0	mg/L		10/21/20 04:12	1
Nitrate Nitrite as N	0.094	J	0.10	0.090	0.040	mg/L		11/07/20 14:20	1

Client Sample ID: GW101-204

Lab Sample ID: 410-17392-2

Date Collected: 10/14/20 14:49

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 14:20	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 14:20	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 14:20	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 14:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 14:20	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 14:20	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 14:20	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 14:20	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 14:20	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 14:20	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 14:20	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/28/20 14:20	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 14:20	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 14:20	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW101-204

Lab Sample ID: 410-17392-2

Date Collected: 10/14/20 14:49

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 14:20	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 14:20	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 14:20	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 14:20	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 14:20	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 14:20	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 14:20	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 14:20	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:20	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 14:20	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 14:20	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:20	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/28/20 14:20	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/28/20 14:20	1
Dibromofluoromethane (Surr)	104		80 - 119		10/28/20 14:20	1
Toluene-d8 (Surr)	98		89 - 112		10/28/20 14:20	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 07:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW101-204

Lab Sample ID: 410-17392-2

Date Collected: 10/14/20 14:49

Matrix: Water

Date Received: 10/16/20 09:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	61		46 - 136	10/24/20 07:38	10/25/20 07:39	1
1,1,2,2-Tetrachloroethane (2C)	59		46 - 136	10/24/20 07:38	10/25/20 07:39	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.3	J D	2.5	2.0	1.3	mg/L		10/20/20 10:40	5
Chloride	56	D	20	15	10	mg/L		10/20/20 10:57	50
Sulfate	140	D	50	45	15	mg/L		10/20/20 10:57	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	77		0.20	0.15	0.096	mg/L		10/19/20 15:40	1
Magnesium	12		0.10	0.075	0.040	mg/L		10/19/20 15:40	1
Potassium	3.3		0.50	0.38	0.20	mg/L		10/19/20 15:40	1
Sodium	33		1.0	0.50	0.24	mg/L		10/20/20 16:03	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:06	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:06	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00093	J	0.0020	0.0016	0.00068	mg/L		10/19/20 21:40	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:40	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	94		8.0	6.0	8.0	mg/L		10/21/20 04:19	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 04:19	1
Total Alkalinity as CaCO3 to pH 4.5	94		8.0	6.0	8.0	mg/L		10/21/20 04:19	1
Nitrate Nitrite as N	2.1		0.20	0.18	0.080	mg/L		11/07/20 14:23	2

Client Sample ID: GW245-460-204

Lab Sample ID: 410-17392-3

Date Collected: 10/14/20 11:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 14:42	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 14:42	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 14:42	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 14:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 14:42	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW245-460-204

Lab Sample ID: 410-17392-3

Date Collected: 10/14/20 11:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 14:42	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 14:42	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 14:42	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 14:42	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 14:42	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 14:42	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/28/20 14:42	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 14:42	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 14:42	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 14:42	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 14:42	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 14:42	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 14:42	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 14:42	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 14:42	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 14:42	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 14:42	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 14:42	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 14:42	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW245-460-204

Lab Sample ID: 410-17392-3

Date Collected: 10/14/20 11:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 14:42	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 14:42	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/28/20 14:42	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/28/20 14:42	1
Dibromofluoromethane (Surr)	104		80 - 119		10/28/20 14:42	1
Toluene-d8 (Surr)	98		89 - 112		10/28/20 14:42	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/25/20 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	69		46 - 136	10/24/20 07:38	10/25/20 07:56	1
1,1,2,2-Tetrachloroethane (2C)	65		46 - 136	10/24/20 07:38	10/25/20 07:56	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.5	J D	2.5	2.0	1.3	mg/L		10/20/20 11:14	5
Chloride	62	D	20	15	10	mg/L		10/20/20 12:05	50
Sulfate	72	D	5.0	4.5	1.5	mg/L		10/20/20 11:14	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	68		0.20	0.15	0.096	mg/L		10/19/20 15:36	1
Magnesium	9.4		0.10	0.075	0.040	mg/L		10/19/20 15:36	1
Potassium	2.6		0.50	0.38	0.20	mg/L		10/19/20 15:36	1
Sodium	27		1.0	0.50	0.24	mg/L		10/20/20 16:00	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:03	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:03	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00088	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:21	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/21/20 17:21	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/21/20 04:25	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 04:25	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/21/20 04:25	1
Nitrate Nitrite as N	1.8		0.20	0.18	0.080	mg/L		11/07/20 14:25	2

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: TB204-47

Lab Sample ID: 410-17392-4

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 12:52	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 12:52	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 12:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 12:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 12:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 12:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 12:52	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 12:52	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 12:52	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 12:52	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 12:52	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/28/20 12:52	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 12:52	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 12:52	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 12:52	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 12:52	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 12:52	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 12:52	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: TB204-47

Lab Sample ID: 410-17392-4

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 12:52	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 12:52	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 12:52	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 12:52	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 12:52	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 12:52	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 12:52	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 12:52	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/28/20 12:52	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/28/20 12:52	1
Dibromofluoromethane (Surr)	102		80 - 119		10/28/20 12:52	1
Toluene-d8 (Surr)	98		89 - 112		10/28/20 12:52	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/25/20 08:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	59		46 - 136	10/24/20 07:38	10/25/20 08:13	1
1,1,2,2-Tetrachloroethane (2C)	59		46 - 136	10/24/20 07:38	10/25/20 08:13	1

Client Sample ID: GW025-204

Lab Sample ID: 410-17392-5

Date Collected: 10/15/20 10:15

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:04	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 15:04	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:04	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW025-204

Lab Sample ID: 410-17392-5

Date Collected: 10/15/20 10:15

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:04	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:04	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:04	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:04	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 15:04	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 15:04	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 15:04	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/28/20 15:04	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 15:04	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 15:04	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 15:04	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 15:04	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 15:04	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 15:04	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:04	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:04	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:04	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 15:04	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:04	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW025-204

Lab Sample ID: 410-17392-5

Date Collected: 10/15/20 10:15

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:04	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 15:04	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:04	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/28/20 15:04	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/28/20 15:04	1
Dibromofluoromethane (Surr)	104		80 - 119		10/28/20 15:04	1
Toluene-d8 (Surr)	98		89 - 112		10/28/20 15:04	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 08:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136	10/24/20 07:38	10/25/20 08:30	1
1,1,2,2-Tetrachloroethane (2C)	67		46 - 136	10/24/20 07:38	10/25/20 08:30	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.4	J D	2.5	2.0	1.3	mg/L		10/20/20 12:22	5
Chloride	56	D	20	15	10	mg/L		10/20/20 12:39	50
Sulfate	61	D	5.0	4.5	1.5	mg/L		10/20/20 12:22	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	53		0.20	0.15	0.096	mg/L		10/19/20 15:33	1
Magnesium	7.4		0.10	0.075	0.040	mg/L		10/19/20 15:33	1
Potassium	5.1		0.50	0.38	0.20	mg/L		10/19/20 15:33	1
Sodium	30		1.0	0.50	0.24	mg/L		10/20/20 15:57	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:09	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00072	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:20	1
Lead	0.00049	J	0.00050	0.00025	0.000071	mg/L		10/21/20 17:20	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	91		8.0	6.0	8.0	mg/L		10/21/20 04:31	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW025-204

Lab Sample ID: 410-17392-5

Date Collected: 10/15/20 10:15

Matrix: Water

Date Received: 10/16/20 09:48

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 04:31	1
Total Alkalinity as CaCO ₃ to pH 4.5	91		8.0	6.0	8.0	mg/L		10/21/20 04:31	1
Nitrate Nitrite as N	1.7		0.10	0.090	0.040	mg/L		11/07/20 14:26	1

Client Sample ID: GW088-204

Lab Sample ID: 410-17392-6

Date Collected: 10/15/20 10:45

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:48	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 15:48	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:48	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:48	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:48	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:48	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:48	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 15:48	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 15:48	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 15:48	1
Acetone	1.3	J	20	2.0	0.70	ug/L		10/28/20 15:48	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 15:48	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 15:48	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 15:48	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 15:48	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW088-204

Lab Sample ID: 410-17392-6

Date Collected: 10/15/20 10:45

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 15:48	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 15:48	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:48	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 15:48	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 15:48	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 15:48	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 15:48	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 15:48	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 15:48	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 15:48	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/28/20 15:48	1
4-Bromofluorobenzene (Surr)	92		85 - 114		10/28/20 15:48	1
Dibromofluoromethane (Surr)	104		80 - 119		10/28/20 15:48	1
Toluene-d8 (Surr)	96		89 - 112		10/28/20 15:48	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.056		0.029	0.019	0.0096	ug/L		10/25/20 08:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	86		46 - 136	10/24/20 07:38	10/25/20 08:46	1
1,1,2,2-Tetrachloroethane (2C)	71		46 - 136	10/24/20 07:38	10/25/20 08:46	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/20/20 12:57	5
Chloride	14	D	2.0	1.5	1.0	mg/L		10/20/20 12:57	5
Sulfate	34	D	5.0	4.5	1.5	mg/L		10/20/20 12:57	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW088-204

Lab Sample ID: 410-17392-6

Date Collected: 10/15/20 10:45

Matrix: Water

Date Received: 10/16/20 09:48

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	44		0.20	0.15	0.096	mg/L		10/19/20 15:30	1
Magnesium	6.0		0.10	0.075	0.040	mg/L		10/19/20 15:30	1
Potassium	2.3		0.50	0.38	0.20	mg/L		10/19/20 15:30	1
Sodium	24		1.0	0.50	0.24	mg/L		10/20/20 15:54	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:18	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:18	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00086	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:18	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/21/20 17:18	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	130		8.0	6.0	8.0	mg/L		10/21/20 03:40	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 03:40	1
Total Alkalinity as CaCO3 to pH 4.5	130		8.0	6.0	8.0	mg/L		10/21/20 03:40	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 14:27	1

Client Sample ID: GW240-449-204

Lab Sample ID: 410-17392-7

Date Collected: 10/15/20 08:45

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 16:10	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 16:10	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 16:10	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 16:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 16:10	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 16:10	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 16:10	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 16:10	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 16:10	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW240-449-204

Lab Sample ID: 410-17392-7

Date Collected: 10/15/20 08:45

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 16:10	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 16:10	1
Acetone	0.71	J	20	2.0	0.70	ug/L		10/28/20 16:10	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 16:10	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 16:10	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 16:10	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 16:10	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 16:10	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 16:10	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 16:10	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 16:10	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 16:10	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 16:10	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:10	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 16:10	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 16:10	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:10	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118					10/28/20 16:10	1
4-Bromofluorobenzene (Surr)	93		85 - 114					10/28/20 16:10	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW240-449-204

Lab Sample ID: 410-17392-7

Date Collected: 10/15/20 08:45

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 119		10/28/20 16:10	1
Toluene-d8 (Surr)	96		89 - 112		10/28/20 16:10	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 09:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/24/20 07:38	10/25/20 09:03	1
1,1,2,2-Tetrachloroethane (2C)	74		46 - 136	10/24/20 07:38	10/25/20 09:03	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.8	D	2.5	2.0	1.3	mg/L		10/20/20 13:31	5
Chloride	180	D	20	15	10	mg/L		10/20/20 13:48	50
Sulfate	230	D	50	45	15	mg/L		10/20/20 13:48	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	160		0.20	0.15	0.096	mg/L		10/19/20 15:27	1
Magnesium	23		0.10	0.075	0.040	mg/L		10/19/20 15:27	1
Potassium	4.1		0.50	0.38	0.20	mg/L		10/19/20 15:27	1
Sodium	39		1.0	0.50	0.24	mg/L		10/20/20 15:51	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:21	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:21	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00089	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:16	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/21/20 17:16	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	88		8.0	6.0	8.0	mg/L		10/21/20 03:46	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 03:46	1
Total Alkalinity as CaCO3 to pH 4.5	88		8.0	6.0	8.0	mg/L		10/21/20 03:46	1
Nitrate Nitrite as N	5.5		0.20	0.18	0.080	mg/L		11/07/20 14:28	2

Client Sample ID: TB204-48

Lab Sample ID: 410-17392-8

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:40	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: TB204-48

Lab Sample ID: 410-17392-8

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 13:40	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 13:40	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 13:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 13:40	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:40	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 13:40	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:40	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 13:40	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 13:40	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 13:40	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 13:40	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 13:40	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 13:40	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 13:40	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:40	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 13:40	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 13:40	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 13:40	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:40	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 13:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: TB204-48

Lab Sample ID: 410-17392-8

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 13:40	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:40	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 13:40	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 13:40	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:40	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/29/20 13:40	1
4-Bromofluorobenzene (Surr)	97		85 - 114		10/29/20 13:40	1
Dibromofluoromethane (Surr)	101		80 - 119		10/29/20 13:40	1
Toluene-d8 (Surr)	97		89 - 112		10/29/20 13:40	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/25/20 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136	10/24/20 07:38	10/25/20 09:20	1
1,1,2,2-Tetrachloroethane (2C)	75		46 - 136	10/24/20 07:38	10/25/20 09:20	1

Client Sample ID: GW051-204

Lab Sample ID: 410-17392-9

Date Collected: 10/15/20 09:30

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 16:32	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 16:32	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 16:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 16:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 16:32	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW051-204

Lab Sample ID: 410-17392-9

Date Collected: 10/15/20 09:30

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 16:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 16:32	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 16:32	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 16:32	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 16:32	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 16:32	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/28/20 16:32	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 16:32	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 16:32	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 16:32	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 16:32	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 16:32	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 16:32	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 16:32	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 16:32	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 16:32	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 16:32	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 16:32	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 16:32	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW051-204

Lab Sample ID: 410-17392-9

Date Collected: 10/15/20 09:30

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 16:32	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 16:32	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/28/20 16:32	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/28/20 16:32	1
Dibromofluoromethane (Surr)	105		80 - 119		10/28/20 16:32	1
Toluene-d8 (Surr)	98		89 - 112		10/28/20 16:32	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	68		46 - 136	10/24/20 07:38	10/25/20 09:37	1
1,1,2,2-Tetrachloroethane (2C)	57		46 - 136	10/24/20 07:38	10/25/20 09:37	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.7	J D	2.5	2.0	1.3	mg/L		10/20/20 14:05	5
Chloride	84	D	20	15	10	mg/L		10/20/20 14:22	50
Sulfate	98	D	50	45	15	mg/L		10/20/20 14:22	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	73		0.20	0.15	0.096	mg/L		10/25/20 12:21	1
Magnesium	10		0.10	0.075	0.040	mg/L		10/25/20 12:21	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/27/20 10:40	1
Sodium	29		1.0	0.50	0.24	mg/L		10/27/20 10:40	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:24	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:24	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00077	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:14	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/21/20 17:14	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	80		8.0	6.0	8.0	mg/L		10/21/20 03:23	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 03:23	1
Total Alkalinity as CaCO3 to pH 4.5	80		8.0	6.0	8.0	mg/L		10/21/20 03:23	1
Nitrate Nitrite as N	2.4		0.20	0.18	0.080	mg/L		11/07/20 14:29	2

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW051-604

Lab Sample ID: 410-17392-10

Date Collected: 10/15/20 09:30

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:37	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 16:37	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 16:37	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 16:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 16:37	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:37	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 16:37	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:37	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 16:37	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 16:37	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 16:37	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 16:37	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 16:37	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 16:37	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 16:37	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:37	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 16:37	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 16:37	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW051-604

Lab Sample ID: 410-17392-10

Date Collected: 10/15/20 09:30

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 16:37	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:37	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 16:37	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 16:37	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:37	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 16:37	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 16:37	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:37	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/29/20 16:37	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/29/20 16:37	1
Dibromofluoromethane (Surr)	101		80 - 119		10/29/20 16:37	1
Toluene-d8 (Surr)	98		89 - 112		10/29/20 16:37	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/25/20 09:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	67		46 - 136	10/24/20 07:38	10/25/20 09:53	1
1,1,2,2-Tetrachloroethane (2C)	62		46 - 136	10/24/20 07:38	10/25/20 09:53	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.8	J D	2.5	2.0	1.3	mg/L		10/20/20 14:39	5
Chloride	84	D	20	15	10	mg/L		10/20/20 15:30	50
Sulfate	110	D	50	45	15	mg/L		10/20/20 15:30	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	73		0.20	0.15	0.096	mg/L		10/25/20 12:24	1
Magnesium	10		0.10	0.075	0.040	mg/L		10/25/20 12:24	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/27/20 10:43	1
Sodium	29		1.0	0.50	0.24	mg/L		10/27/20 10:43	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW051-604

Lab Sample ID: 410-17392-10

Date Collected: 10/15/20 09:30

Matrix: Water

Date Received: 10/16/20 09:48

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00072	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:12	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/21/20 17:12	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	79		8.0	6.0	8.0	mg/L		10/21/20 02:49	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:49	1
Total Alkalinity as CaCO ₃ to pH 4.5	79	J1	8.0	6.0	8.0	mg/L		10/21/20 02:49	1
Nitrate Nitrite as N	2.5		0.20	0.18	0.080	mg/L		11/07/20 14:30	2

Client Sample ID: GW102-204

Lab Sample ID: 410-17392-11

Date Collected: 10/15/20 08:59

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:59	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 16:59	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 16:59	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 16:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 16:59	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:59	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 16:59	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:59	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 16:59	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 16:59	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 16:59	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 16:59	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 16:59	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 16:59	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW102-204

Lab Sample ID: 410-17392-11

Date Collected: 10/15/20 08:59

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 16:59	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:59	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 16:59	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 16:59	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 16:59	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 16:59	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 16:59	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 16:59	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 16:59	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 16:59	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 16:59	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 16:59	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/29/20 16:59	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 16:59	1
Dibromofluoromethane (Surr)	103		80 - 119		10/29/20 16:59	1
Toluene-d8 (Surr)	96		89 - 112		10/29/20 16:59	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 10:44	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW102-204

Lab Sample ID: 410-17392-11

Date Collected: 10/15/20 08:59

Matrix: Water

Date Received: 10/16/20 09:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	62		46 - 136	10/24/20 07:38	10/25/20 10:44	1
1,1,2,2-Tetrachloroethane (2C)	59		46 - 136	10/24/20 07:38	10/25/20 10:44	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/20/20 09:49	5
Chloride	10	D	2.0	1.5	1.0	mg/L		10/20/20 09:49	5
Sulfate	29	D	5.0	4.5	1.5	mg/L		10/20/20 09:49	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	33		0.20	0.15	0.096	mg/L		10/25/20 12:27	1
Magnesium	5.0		0.10	0.075	0.040	mg/L		10/25/20 12:27	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/27/20 10:46	1
Sodium	21		1.0	0.50	0.24	mg/L		10/27/20 10:46	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:30	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:03	1
Lead	0.00046	J	0.00050	0.00025	0.000071	mg/L		10/21/20 17:03	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L		10/21/20 03:10	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 03:10	1
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L		10/21/20 03:10	1
Nitrate Nitrite as N	0.39		0.10	0.090	0.040	mg/L		11/07/20 14:34	1

Client Sample ID: TB204-49

Lab Sample ID: 410-17392-12

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 13:36	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 13:36	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 13:36	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 13:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 13:36	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: TB204-49

Lab Sample ID: 410-17392-12

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 13:36	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 13:36	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 13:36	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 13:36	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 13:36	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 13:36	1
Acetone	0.82	J	20	2.0	0.70	ug/L		10/28/20 13:36	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 13:36	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 13:36	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 13:36	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 13:36	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 13:36	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 13:36	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 13:36	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 13:36	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 13:36	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 13:36	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:36	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 13:36	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: TB204-49

Lab Sample ID: 410-17392-12

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 13:36	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:36	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/28/20 13:36	1
4-Bromofluorobenzene (Surr)	110		85 - 114		10/28/20 13:36	1
Dibromofluoromethane (Surr)	102		80 - 119		10/28/20 13:36	1
Toluene-d8 (Surr)	98		89 - 112		10/28/20 13:36	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136	10/24/20 07:38	10/25/20 11:00	1
1,1,2,2-Tetrachloroethane (2C)	79		46 - 136	10/24/20 07:38	10/25/20 11:00	1

Client Sample ID: GW048-204

Lab Sample ID: 410-17392-13

Date Collected: 10/15/20 11:11

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:21	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 17:21	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 17:21	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 17:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 17:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:21	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 17:21	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:21	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 17:21	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW048-204

Lab Sample ID: 410-17392-13

Date Collected: 10/15/20 11:11

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 17:21	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 17:21	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 17:21	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 17:21	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 17:21	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 17:21	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:21	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Chloromethane	0.50	U M	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 17:21	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 17:21	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 17:21	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:21	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 17:21	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 17:21	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:21	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 17:21	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Toluene	0.87	J	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 17:21	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:21	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118					10/29/20 17:21	1
4-Bromofluorobenzene (Surr)	95		85 - 114					10/29/20 17:21	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW048-204

Lab Sample ID: 410-17392-13

Date Collected: 10/15/20 11:11

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		80 - 119		10/29/20 17:21	1
Toluene-d8 (Surr)	97		89 - 112		10/29/20 17:21	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/25/20 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	65		46 - 136	10/24/20 07:38	10/25/20 11:17	1
1,1,2,2-Tetrachloroethane (2C)	65		46 - 136	10/24/20 07:38	10/25/20 11:17	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/20/20 16:21	5
Chloride	9.1	D	2.0	1.5	1.0	mg/L		10/20/20 16:21	5
Sulfate	30	D	5.0	4.5	1.5	mg/L		10/20/20 16:21	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	34		0.20	0.15	0.096	mg/L		10/25/20 12:30	1
Magnesium	4.9		0.10	0.075	0.040	mg/L		10/25/20 12:30	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/27/20 10:49	1
Sodium	22		1.0	0.50	0.24	mg/L		10/27/20 10:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:33	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:05	1
Lead	0.00091		0.00050	0.00025	0.000071	mg/L		10/21/20 17:05	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L		10/21/20 03:53	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 03:53	1
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L		10/21/20 03:53	1
Nitrate Nitrite as N	0.45		0.10	0.090	0.040	mg/L		11/07/20 15:57	1

Client Sample ID: GW061-204

Lab Sample ID: 410-17392-14

Date Collected: 10/15/20 15:09

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:43	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW061-204

Lab Sample ID: 410-17392-14

Date Collected: 10/15/20 15:09

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 17:43	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 17:43	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 17:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 17:43	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:43	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 17:43	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:43	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 17:43	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 17:43	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 17:43	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 17:43	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 17:43	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 17:43	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 17:43	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:43	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 17:43	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 17:43	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 17:43	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 17:43	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 17:43	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW061-204

Lab Sample ID: 410-17392-14

Date Collected: 10/15/20 15:09

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 17:43	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 17:43	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 17:43	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Toluene	0.40	J	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 17:43	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 17:43	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		10/29/20 17:43	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 17:43	1
Dibromofluoromethane (Surr)	103		80 - 119		10/29/20 17:43	1
Toluene-d8 (Surr)	97		89 - 112		10/29/20 17:43	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 11:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	66		46 - 136	10/24/20 07:38	10/25/20 11:34	1
1,1,2,2-Tetrachloroethane (2C)	64		46 - 136	10/24/20 07:38	10/25/20 11:34	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 02:35	5
Chloride	8.7	D	2.0	1.5	1.0	mg/L		10/21/20 02:35	5
Sulfate	26	D	5.0	4.5	1.5	mg/L		10/21/20 02:35	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	31		0.20	0.15	0.096	mg/L		10/25/20 12:33	1
Magnesium	4.4		0.10	0.075	0.040	mg/L		10/25/20 12:33	1
Potassium	1.8		0.50	0.38	0.20	mg/L		10/27/20 10:52	1
Sodium	21		1.0	0.50	0.24	mg/L		10/27/20 10:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 12:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 12:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW061-204

Lab Sample ID: 410-17392-14

Date Collected: 10/15/20 15:09

Matrix: Water

Date Received: 10/16/20 09:48

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/21/20 17:10	1
Lead	0.00015	J	0.00050	0.00025	0.000071	mg/L		10/21/20 17:10	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	100		8.0	6.0	8.0	mg/L		10/21/20 03:59	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 03:59	1
Total Alkalinity as CaCO3 to pH 4.5	100		8.0	6.0	8.0	mg/L		10/21/20 03:59	1
Nitrate Nitrite as N	0.047	J	0.10	0.090	0.040	mg/L		11/07/20 14:35	1

Client Sample ID: GW081-204

Lab Sample ID: 410-17392-15

Date Collected: 10/15/20 13:26

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:05	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 18:05	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:05	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:05	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:05	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:05	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:05	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 18:05	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 18:05	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 18:05	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 18:05	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 18:05	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 18:05	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 18:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW081-204

Lab Sample ID: 410-17392-15

Date Collected: 10/15/20 13:26

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:05	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 18:05	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 18:05	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:05	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:05	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:05	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 18:05	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:05	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:05	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Toluene	0.49	J	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 18:05	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:05	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/29/20 18:05	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 18:05	1
Dibromofluoromethane (Surr)	102		80 - 119		10/29/20 18:05	1
Toluene-d8 (Surr)	97		89 - 112		10/29/20 18:05	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	63		46 - 136	10/24/20 06:40	10/25/20 11:50	1
1,1,2,2-Tetrachloroethane (2C)	62		46 - 136	10/24/20 06:40	10/25/20 11:50	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW081-204

Lab Sample ID: 410-17392-15

Date Collected: 10/15/20 13:26

Matrix: Water

Date Received: 10/16/20 09:48

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 03:09	5
Chloride	7.2	D	2.0	1.5	1.0	mg/L		10/21/20 03:09	5
Sulfate	24	D	5.0	4.5	1.5	mg/L		10/21/20 03:09	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	31		0.20	0.15	0.096	mg/L		10/25/20 12:36	1
Magnesium	4.5		0.10	0.075	0.040	mg/L		10/25/20 12:36	1
Potassium	1.8		0.50	0.38	0.20	mg/L		10/27/20 10:55	1
Sodium	21		1.0	0.50	0.24	mg/L		10/27/20 10:55	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 20:01	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 20:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0011	J	0.0020	0.0016	0.00068	mg/L		10/19/20 21:51	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:51	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L		10/21/20 04:06	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 04:06	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L		10/21/20 04:06	1
Nitrate Nitrite as N	0.10		0.10	0.090	0.040	mg/L		11/07/20 14:39	1

Client Sample ID: TB204-50

Lab Sample ID: 410-17392-16

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 13:58	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 13:58	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 13:58	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 13:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 13:58	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 13:58	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 13:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: TB204-50

Lab Sample ID: 410-17392-16

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 13:58	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 13:58	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 13:58	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 13:58	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/28/20 13:58	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 13:58	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 13:58	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 13:58	1
Bromomethane	0.50	U Q	1.0	0.50	0.30	ug/L		10/28/20 13:58	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 13:58	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 13:58	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 13:58	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 13:58	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 13:58	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 13:58	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 13:58	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 13:58	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:58	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: TB204-50

Lab Sample ID: 410-17392-16

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 13:58	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		10/28/20 13:58	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/28/20 13:58	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/28/20 13:58	1
Dibromofluoromethane (Surr)	103		80 - 119		10/28/20 13:58	1
Toluene-d8 (Surr)	98		89 - 112		10/28/20 13:58	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		10/25/20 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	61		46 - 136	10/24/20 06:40	10/25/20 12:24	1
1,1,2,2-Tetrachloroethane (2C)	62		46 - 136	10/24/20 06:40	10/25/20 12:24	1

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-17392-1	GW072-204	103	95	104	98
410-17392-2	GW101-204	102	95	104	98
410-17392-3	GW245-460-204	103	96	104	98
410-17392-4	TB204-47	102	96	102	98
410-17392-5	GW025-204	102	95	104	98
410-17392-6	GW088-204	102	92	104	96
410-17392-7	GW240-449-204	102	93	105	96
410-17392-8	TB204-48	100	97	101	97
410-17392-9	GW051-204	103	94	105	98
410-17392-10	GW051-604	103	95	101	98
410-17392-11	GW102-204	104	96	103	96
410-17392-12	TB204-49	101	110	102	98
410-17392-13	GW048-204	103	95	102	97
410-17392-14	GW061-204	105	96	103	97
410-17392-15	GW081-204	102	96	102	97
410-17392-16	TB204-50	101	95	103	98
LCS 410-59362/5	Lab Control Sample	99	108	101	96
LCS 410-59362/7	Lab Control Sample	101	97	101	99
LCS 410-59890/5	Lab Control Sample	99	99	100	99
LCS 410-59890/7	Lab Control Sample	101	97	99	100
LCSD 410-59362/6	Lab Control Sample Dup	101	117 Q	102	100
LCSD 410-59362/8	Lab Control Sample Dup	100	97	100	98
MB 410-59362/10	Method Blank	102	96	101	100
MB 410-59890/10	Method Blank	99	96	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1122TCA1 (46-136)	1122TCA2 (46-136)
410-17392-1	GW072-204	66	69
410-17392-2	GW101-204	61	59
410-17392-3	GW245-460-204	69	65
410-17392-4	TB204-47	59	59
410-17392-5	GW025-204	92	67
410-17392-6	GW088-204	86	71
410-17392-7	GW240-449-204	97	74
410-17392-8	TB204-48	75	75
410-17392-9	GW051-204	68	57
410-17392-10	GW051-604	67	62
410-17392-11	GW102-204	62	59
410-17392-12	TB204-49	81	79
410-17392-13	GW048-204	65	65

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Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1122TCA1 (46-136)	1122TCA2 (46-136)
410-17392-14	GW061-204	66	64
410-17392-15	GW081-204	63	62
410-17392-15 MS	GW081-204	67	66
410-17392-16	TB204-50	61	62
LCS 410-58081/2-A	Lab Control Sample	70	67
LCS 410-58096/2-A	Lab Control Sample	74	72
LCSD 410-58081/3-A	Lab Control Sample Dup	81	80
LCSD 410-58096/3-A	Lab Control Sample Dup	75	72
MB 410-58081/1-A	Method Blank	67	68
MB 410-58096/1-A	Method Blank	75	72

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-59362/10

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	MB MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 11:44	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/28/20 11:44	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 11:44	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 11:44	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 11:44	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 11:44	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 11:44	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 11:44	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 11:44	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/28/20 11:44	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/28/20 11:44	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/28/20 11:44	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/28/20 11:44	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/28/20 11:44	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/28/20 11:44	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 11:44	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 11:44	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/28/20 11:44	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-59362/10

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 11:44	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/28/20 11:44	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/28/20 11:44	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/28/20 11:44	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/28/20 11:44	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/28/20 11:44	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/28/20 11:44	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/28/20 11:44	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/28/20 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/28/20 11:44	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/28/20 11:44	1
Dibromofluoromethane (Surr)	101		80 - 119		10/28/20 11:44	1
Toluene-d8 (Surr)	100		89 - 112		10/28/20 11:44	1

Lab Sample ID: LCS 410-59362/5

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	21.4		ug/L		107	78 - 124
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	71 - 121
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	80 - 119
1,1-Dichloroethane	20.0	20.6		ug/L		103	77 - 125
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131
1,1-Dichloropropene	20.0	19.7		ug/L		99	79 - 125
1,2,3-Trichlorobenzene	20.0	18.1		ug/L		91	69 - 129
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	20.0	18.2		ug/L		91	69 - 130
1,2,4-Trimethylbenzene	20.0	20.3		ug/L		102	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/L		94	62 - 128
1,2-Dibromoethane	20.0	19.2		ug/L		96	77 - 121
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 119
1,2-Dichloroethane	20.0	20.7		ug/L		104	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59362/5

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.2		ug/L		106	78 - 122
1,3,5-Trimethylbenzene	20.0	20.5		ug/L		103	75 - 124
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 119
1,3-Dichloropropane	20.0	19.5		ug/L		97	80 - 119
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	79 - 118
2,2-Dichloropropane	20.0	21.8		ug/L		109	60 - 139
2-Butanone	150	189		ug/L		126	56 - 143
2-Chlorotoluene	20.0	20.6		ug/L		103	79 - 122
2-Hexanone	100	109		ug/L		109	57 - 139
4-Chlorotoluene	20.0	20.2		ug/L		101	78 - 122
4-Methyl-2-pentanone	100	104		ug/L		104	67 - 130
Acetone	150	239		ug/L		159	39 - 160
Acrolein	150	128		ug/L		86	39 - 155
Acrylonitrile	100	93.2		ug/L		93	63 - 135
Benzene	20.0	19.7		ug/L		98	42 - 138
Bromobenzene	20.0	20.3		ug/L		102	80 - 120
Bromochloromethane	20.0	19.9		ug/L		100	78 - 123
Bromodichloromethane	20.0	20.1		ug/L		101	79 - 125
Bromoform	20.0	18.8		ug/L		94	66 - 130
Bromomethane	20.0	22.3		ug/L		112	53 - 141
Carbon disulfide	20.0	18.3		ug/L		91	64 - 133
Carbon tetrachloride	20.0	19.6		ug/L		98	72 - 136
Chlorobenzene	20.0	20.7		ug/L		104	82 - 118
Chloroethane	20.0	22.2		ug/L		111	60 - 138
Chloroform	20.0	20.2		ug/L		101	79 - 124
Chloromethane	20.0	22.7		ug/L		114	50 - 139
cis-1,2-Dichloroethene	20.0	21.1		ug/L		106	78 - 123
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	75 - 124
Dibromochloromethane	20.0	18.5		ug/L		93	74 - 126
Dibromomethane	20.0	20.8		ug/L		104	79 - 123
Dichlorodifluoromethane	20.0	13.2		ug/L		66	32 - 152
Ethylbenzene	20.0	21.2		ug/L		106	79 - 121
Hexachlorobutadiene	20.0	17.2		ug/L		86	66 - 134
Isopropylbenzene	20.0	22.3		ug/L		112	72 - 131
m&p-Xylene	40.0	45.5		ug/L		114	80 - 121
Methyl tertiary butyl ether	20.0	19.9		ug/L		100	71 - 124
Methylene Chloride	20.0	20.6		ug/L		103	74 - 124
Naphthalene	20.0	18.6		ug/L		93	61 - 128
n-Butylbenzene	20.0	20.4		ug/L		102	75 - 128
N-Propylbenzene	20.0	20.8		ug/L		104	76 - 126
o-Xylene	20.0	22.6		ug/L		113	78 - 122
p-Isopropyltoluene	20.0	22.0		ug/L		110	77 - 127
sec-Butylbenzene	20.0	21.4		ug/L		107	77 - 126
Styrene	20.0	22.2		ug/L		111	78 - 123
tert-Butylbenzene	20.0	20.5		ug/L		103	78 - 124
Tetrachloroethene	20.0	17.4		ug/L		87	74 - 129
Toluene	20.0	18.8		ug/L		94	80 - 121
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	75 - 124
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59362/5

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.7		ug/L		98	79 - 123
Trichlorofluoromethane	20.0	20.8		ug/L		104	65 - 141
Vinyl chloride	20.0	23.3		ug/L		116	58 - 137
Xylenes, Total	60.0	68.1		ug/L		114	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	108		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: LCS 410-59362/7

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	105		ug/L		105	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-59362/6

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	20.0	21.1		ug/L		105	78 - 124	2	20
1,1,1-Trichloroethane	20.0	19.5		ug/L		98	74 - 131	2	20
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		98	71 - 121	5	20
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	80 - 119	3	20
1,1-Dichloroethane	20.0	20.1		ug/L		100	77 - 125	2	20
1,1-Dichloroethene	20.0	20.2		ug/L		101	71 - 131	1	20
1,1-Dichloropropene	20.0	19.2		ug/L		96	79 - 125	3	20
1,2,3-Trichlorobenzene	20.0	20.1		ug/L		101	69 - 129	10	20
1,2,3-Trichloropropane	20.0	19.1		ug/L		96	73 - 122	4	20
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	69 - 130	6	20
1,2,4-Trimethylbenzene	20.0	19.4		ug/L		97	76 - 124	5	20
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/L		92	62 - 128	2	20
1,2-Dibromoethane	20.0	19.5		ug/L		98	77 - 121	1	20
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 119	5	20
1,2-Dichloroethane	20.0	20.4		ug/L		102	73 - 128	1	20
1,2-Dichloropropane	20.0	20.8		ug/L		104	78 - 122	2	20
1,3,5-Trimethylbenzene	20.0	18.9		ug/L		95	75 - 124	8	20
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 119	6	20
1,3-Dichloropropane	20.0	19.7		ug/L		98	80 - 119	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-59362/6

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	79 - 118	2	20
2,2-Dichloropropane	20.0	21.4		ug/L		107	60 - 139	2	20
2-Butanone	150	189		ug/L		126	56 - 143	0	20
2-Chlorotoluene	20.0	18.8		ug/L		94	79 - 122	9	20
2-Hexanone	100	114		ug/L		114	57 - 139	4	20
4-Chlorotoluene	20.0	19.4		ug/L		97	78 - 122	4	20
4-Methyl-2-pentanone	100	104		ug/L		104	67 - 130	0	20
Acetone	150	230		ug/L		154	39 - 160	4	20
Acrolein	150	144		ug/L		96	39 - 155	12	20
Acrylonitrile	100	92.2		ug/L		92	63 - 135	1	20
Benzene	20.0	19.2		ug/L		96	42 - 138	2	20
Bromobenzene	20.0	19.1		ug/L		95	80 - 120	6	20
Bromochloromethane	20.0	19.7		ug/L		98	78 - 123	1	20
Bromodichloromethane	20.0	19.7		ug/L		99	79 - 125	2	20
Bromoform	20.0	19.7		ug/L		99	66 - 130	5	20
Bromomethane	20.0	21.5		ug/L		108	53 - 141	4	20
Carbon disulfide	20.0	17.9		ug/L		89	64 - 133	2	20
Carbon tetrachloride	20.0	19.2		ug/L		96	72 - 136	2	20
Chlorobenzene	20.0	20.1		ug/L		101	82 - 118	3	20
Chloroethane	20.0	21.9		ug/L		110	60 - 138	1	20
Chloroform	20.0	19.8		ug/L		99	79 - 124	2	20
Chloromethane	20.0	22.3		ug/L		112	50 - 139	2	20
cis-1,2-Dichloroethene	20.0	21.0		ug/L		105	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	20.7		ug/L		103	75 - 124	2	20
Dibromochloromethane	20.0	18.9		ug/L		95	74 - 126	2	20
Dibromomethane	20.0	20.5		ug/L		102	79 - 123	1	20
Dichlorodifluoromethane	20.0	12.6		ug/L		63	32 - 152	4	20
Ethylbenzene	20.0	20.7		ug/L		103	79 - 121	2	20
Hexachlorobutadiene	20.0	17.7		ug/L		89	66 - 134	3	20
Isopropylbenzene	20.0	23.7		ug/L		119	72 - 131	6	20
m&p-Xylene	40.0	44.3		ug/L		111	80 - 121	3	20
Methyl tertiary butyl ether	20.0	20.0		ug/L		100	71 - 124	0	20
Methylene Chloride	20.0	19.8		ug/L		99	74 - 124	4	20
Naphthalene	20.0	21.0		ug/L		105	61 - 128	12	20
n-Butylbenzene	20.0	19.6		ug/L		98	75 - 128	4	20
N-Propylbenzene	20.0	19.3		ug/L		96	76 - 126	8	20
o-Xylene	20.0	22.5		ug/L		113	78 - 122	1	20
p-Isopropyltoluene	20.0	20.8		ug/L		104	77 - 127	5	20
sec-Butylbenzene	20.0	19.2		ug/L		96	77 - 126	11	20
Styrene	20.0	22.5		ug/L		112	78 - 123	1	20
tert-Butylbenzene	20.0	19.9		ug/L		100	78 - 124	3	20
Tetrachloroethene	20.0	17.6		ug/L		88	74 - 129	1	20
Toluene	20.0	18.9		ug/L		95	80 - 121	1	20
trans-1,2-Dichloroethene	20.0	19.5		ug/L		97	75 - 124	3	20
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	73 - 127	2	20
Trichloroethene	20.0	19.1		ug/L		96	79 - 123	3	20
Trichlorofluoromethane	20.0	19.9		ug/L		99	65 - 141	5	20
Vinyl chloride	20.0	22.9		ug/L		114	58 - 137	2	20
Xylenes, Total	60.0	66.8		ug/L		111	79 - 121	2	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	117	Q	85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCSD 410-59362/8

Matrix: Water

Analysis Batch: 59362

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec.		RPD	Limit
		Result	Qualifier				Limits			
Vinyl acetate	100	103		ug/L		103	54 - 146		2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: MB 410-59890/10

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 11:32	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/29/20 11:32	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/29/20 11:32	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 11:32	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/29/20 11:32	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/29/20 11:32	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-59890/10

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/29/20 11:32	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 11:32	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 11:32	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/29/20 11:32	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 11:32	1
p-Isopropyltoluene	2.41	J M	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
sec-Butylbenzene	2.25	J	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 11:32	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 11:32	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/29/20 11:32	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 11:32	1
Dibromofluoromethane (Surr)	99		80 - 119		10/29/20 11:32	1
Toluene-d8 (Surr)	99		89 - 112		10/29/20 11:32	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				Limits
1,1,1,2-Tetrachloroethane	20.0	18.9		ug/L		95	78 - 124
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	20.0	17.6		ug/L		88	71 - 121
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 119
1,1-Dichloroethane	20.0	18.7		ug/L		94	77 - 125
1,1-Dichloroethene	20.0	19.4		ug/L		97	71 - 131
1,1-Dichloropropene	20.0	18.8		ug/L		94	79 - 125
1,2,3-Trichlorobenzene	20.0	18.3		ug/L		91	69 - 129
1,2,3-Trichloropropane	20.0	18.2		ug/L		91	73 - 122
1,2,4-Trichlorobenzene	20.0	18.7		ug/L		93	69 - 130
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		94	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/L		88	62 - 128
1,2-Dibromoethane	20.0	18.6		ug/L		93	77 - 121
1,2-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 119
1,2-Dichloroethane	20.0	18.5		ug/L		93	73 - 128
1,2-Dichloropropane	20.0	18.8		ug/L		94	78 - 122
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	75 - 124
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 119
1,3-Dichloropropane	20.0	18.3		ug/L		92	80 - 119
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	79 - 118
2,2-Dichloropropane	20.0	19.9		ug/L		100	60 - 139
2-Butanone	150	165		ug/L		110	56 - 143
2-Chlorotoluene	20.0	18.8		ug/L		94	79 - 122
2-Hexanone	100	100		ug/L		100	57 - 139
4-Chlorotoluene	20.0	18.9		ug/L		94	78 - 122
4-Methyl-2-pentanone	100	88.9		ug/L		89	67 - 130
Acetone	150	236		ug/L		157	39 - 160
Acrolein	150	126		ug/L		84	39 - 155
Acrylonitrile	100	84.3		ug/L		84	63 - 135
Benzene	20.0	18.7		ug/L		94	42 - 138
Bromobenzene	20.0	18.9		ug/L		95	80 - 120
Bromochloromethane	20.0	18.0		ug/L		90	78 - 123
Bromodichloromethane	20.0	18.8		ug/L		94	79 - 125
Bromoform	20.0	19.2		ug/L		96	66 - 130
Bromomethane	20.0	17.4		ug/L		87	53 - 141
Carbon disulfide	20.0	18.8		ug/L		94	64 - 133
Carbon tetrachloride	20.0	19.3		ug/L		96	72 - 136
Chlorobenzene	20.0	19.3		ug/L		97	82 - 118
Chloroethane	20.0	16.7		ug/L		83	60 - 138
Chloroform	20.0	19.0		ug/L		95	79 - 124
Chloromethane	20.0	16.1		ug/L		80	50 - 139
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	78 - 123
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	75 - 124
Dibromochloromethane	20.0	20.4		ug/L		102	74 - 126
Dibromomethane	20.0	18.9		ug/L		95	79 - 123
Dichlorodifluoromethane	20.0	15.2		ug/L		76	32 - 152
Ethylbenzene	20.0	19.4		ug/L		97	79 - 121
Hexachlorobutadiene	20.0	18.8		ug/L		94	66 - 134

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	20.0	19.9		ug/L		100	72 - 131
m&p-Xylene	40.0	39.4		ug/L		99	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	18.9		ug/L		94	74 - 124
Naphthalene	20.0	18.6		ug/L		93	61 - 128
n-Butylbenzene	20.0	18.5		ug/L		92	75 - 128
N-Propylbenzene	20.0	19.2		ug/L		96	76 - 126
o-Xylene	20.0	19.6		ug/L		98	78 - 122
p-Isopropyltoluene	20.0	19.4		ug/L		97	77 - 127
sec-Butylbenzene	20.0	19.2		ug/L		96	77 - 126
Styrene	20.0	19.6		ug/L		98	78 - 123
tert-Butylbenzene	20.0	20.9		ug/L		104	78 - 124
Tetrachloroethene	20.0	20.9		ug/L		105	74 - 129
Toluene	20.0	19.0		ug/L		95	80 - 121
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	75 - 124
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	73 - 127
Trichloroethene	20.0	19.1		ug/L		96	79 - 123
Trichlorofluoromethane	20.0	17.5	M	ug/L		87	65 - 141
Vinyl chloride	20.0	17.7		ug/L		88	58 - 137
Xylenes, Total	60.0	59.0		ug/L		98	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-59890/7

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	101		ug/L		101	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-58081/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58081

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 18:16	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 410-58081/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58081

Surrogate	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	67		46 - 136	10/24/20 06:40	10/24/20 18:16	1
1,1,2,2-Tetrachloroethane (2C)	68		46 - 136	10/24/20 06:40	10/24/20 18:16	1

Lab Sample ID: LCS 410-58081/2-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Spike Added	LCS LCS Result	Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.118		ug/L		92	60 - 140
Surrogate	LCS LCS %Recovery	Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)	70		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	67		46 - 136				

Lab Sample ID: LCSD 410-58081/3-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Spike Added	LCSD LCSD Result	Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.130		ug/L		101	60 - 140	10	20
Surrogate	LCSD LCSD %Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	80		46 - 136						

Lab Sample ID: 410-17392-15 MS

Matrix: Water

Analysis Batch: 58622

Client Sample ID: GW081-204

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS Result	Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.019	U	0.122	0.107		ug/L		88	60 - 140
Surrogate	MS MS %Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	67		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	66		46 - 136						

Lab Sample ID: MB 410-58096/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58096

Analyte	MB MB Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 19:07	1
Surrogate	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136	10/24/20 07:38	10/24/20 19:07	1			
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136	10/24/20 07:38	10/24/20 19:07	1			

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 410-58096/2-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58096

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylene Dibromide (1C)			0.128	0.127		ug/L		100	60 - 140		
	LCS		LCS								
Surrogate	%Recovery	Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136								

Lab Sample ID: LCSD 410-58096/3-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58096

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylene Dibromide (1C)			0.128	0.125		ug/L		98	60 - 140	2	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136								

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-56178/4

Matrix: Water

Analysis Batch: 56178

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/20/20 05:33	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/20/20 05:33	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/20/20 05:33	1

Lab Sample ID: LCS 410-56178/3

Matrix: Water

Analysis Batch: 56178

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.26		mg/L		97	90 - 110
Chloride	3.00	2.90		mg/L		97	90 - 110
Sulfate	7.50	7.33		mg/L		98	90 - 110

Lab Sample ID: 410-17392-11 MS

Matrix: Water

Analysis Batch: 56178

Client Sample ID: GW102-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	2.0	U	25.0	23.9	D	mg/L		95	90 - 110
Chloride	10	D	10.0	20.6	D	mg/L		102	90 - 110
Sulfate	29	D	25.0	55.4	D	mg/L		105	90 - 110

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 410-17392-11 DU

Matrix: Water

Analysis Batch: 56178

Client Sample ID: GW102-204

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Bromide	2.0	U	2.0	U	mg/L		NC	15
Chloride	10	D	10.4	D	mg/L		0.1	15
Sulfate	29	D	29.2	D	mg/L		0.5	15

Lab Sample ID: MB 410-56222/4

Matrix: Water

Analysis Batch: 56222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/21/20 01:27	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/21/20 01:27	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/21/20 01:27	1

Lab Sample ID: LCS 410-56222/3

Matrix: Water

Analysis Batch: 56222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.46		mg/L		99	90 - 110
Chloride	3.00	2.98		mg/L		99	90 - 110
Sulfate	7.50	7.60		mg/L		101	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-55832/1-A

Matrix: Water

Analysis Batch: 57430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55832

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/22/20 11:04	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/22/20 11:04	1

Lab Sample ID: LCS 410-55832/2-A

Matrix: Water

Analysis Batch: 57430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.410		mg/L		102	87 - 115
Manganese	0.0200	0.0223		mg/L		112	90 - 114

Lab Sample ID: MB 410-55843/1-A

Matrix: Water

Analysis Batch: 56592

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55843

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 19:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 19:36	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-55843/2-A

Matrix: Water

Analysis Batch: 56592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							87 - 115	90 - 114
Iron	0.402	0.389		mg/L		97		
Manganese	0.0200	0.0207		mg/L		104		

Lab Sample ID: MB 410-55546/1-A

Matrix: Water

Analysis Batch: 55995

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/19/20 14:04	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/19/20 14:04	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/19/20 14:04	1

Lab Sample ID: MB 410-55546/1-A

Matrix: Water

Analysis Batch: 56483

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/20/20 14:35	1

Lab Sample ID: LCS 410-55546/2-A

Matrix: Water

Analysis Batch: 55995

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							87 - 113	85 - 113
Calcium	0.400	0.404		mg/L		101		
Magnesium	0.200	0.225		mg/L		113		
Potassium	5.60	5.33		mg/L		95		

Lab Sample ID: LCS 410-55546/2-A

Matrix: Water

Analysis Batch: 56483

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							87 - 115	
Sodium	2.00	1.99		mg/L		100		

Lab Sample ID: MB 410-55547/1-A

Matrix: Water

Analysis Batch: 58319

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55547

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/25/20 11:35	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/25/20 11:35	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/25/20 11:35	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/25/20 11:35	1

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-55547/2-A

Matrix: Water

Analysis Batch: 58319

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Calcium	0.400	0.398		mg/L		100	87 - 113	
Magnesium	0.200	0.209		mg/L		105	85 - 113	

Lab Sample ID: LCS 410-55547/2-A

Matrix: Water

Analysis Batch: 59041

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Potassium	5.60	5.57		mg/L		99	86 - 114	
Sodium	2.00	2.13		mg/L		106	87 - 115	

Lab Sample ID: 410-17392-1 MS

Matrix: Water

Analysis Batch: 56592

Client Sample ID: GW072-204

Prep Type: Dissolved

Prep Batch: 55843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Iron	0.10	U	0.402	0.398		mg/L		99	87 - 115	
Manganese	0.033		0.0200	0.0531		mg/L		100	90 - 114	

Lab Sample ID: 410-17392-1 MSD

Matrix: Water

Analysis Batch: 56592

Client Sample ID: GW072-204

Prep Type: Dissolved

Prep Batch: 55843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
Iron	0.10	U	0.402	0.407		mg/L		101	87 - 115		2	20
Manganese	0.033		0.0200	0.0533		mg/L		101	90 - 114		0	20

Lab Sample ID: 410-17392-1 DU

Matrix: Water

Analysis Batch: 56592

Client Sample ID: GW072-204

Prep Type: Dissolved

Prep Batch: 55843

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit	
Iron	0.10	U	0.10	U	mg/L		NC	20	
Manganese	0.033		0.0329		mg/L		0.6	20	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-55716/1-A

Matrix: Water

Analysis Batch: 56298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55716

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 20:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 20:55	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-55716/2-A

Matrix: Water

Analysis Batch: 56298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	0.0600	0.0589		mg/L		98	84 - 116	
Lead	0.0300	0.0303		mg/L		101	88 - 115	

Lab Sample ID: MB 410-56427/1-A

Matrix: Water

Analysis Batch: 57422

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56427

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/21/20 16:48	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/21/20 16:48	1

Lab Sample ID: LCS 410-56427/2-A

Matrix: Water

Analysis Batch: 57422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Arsenic	0.0600	0.0588		mg/L		98	84 - 116	
Lead	0.0300	0.0289		mg/L		97	88 - 115	

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-56962/49

Matrix: Water

Analysis Batch: 56962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 00:49	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 00:49	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 00:49	1

Lab Sample ID: MB 410-56962/66

Matrix: Water

Analysis Batch: 56962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1

Lab Sample ID: LCS 410-56962/52

Matrix: Water

Analysis Batch: 56962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106	

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-56962/67

Matrix: Water

Analysis Batch: 56962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106

Lab Sample ID: 410-17392-10 MS

Matrix: Water

Analysis Batch: 56962

Client Sample ID: GW051-604

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	79	J1	189	123	J1	mg/L		23	82 - 106

Lab Sample ID: 410-17392-10 DU

Matrix: Water

Analysis Batch: 56962

Client Sample ID: GW051-604

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	79	J1	79.5		mg/L		0.4	5

Lab Sample ID: 410-17392-11 DU

Matrix: Water

Analysis Batch: 56962

Client Sample ID: GW102-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	100		99.6		mg/L		0.2	5

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-63338/142

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 15:44	1

Lab Sample ID: MB 410-63338/53

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 12:16	1

Lab Sample ID: LCS 410-63338/143

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.30		mg/L		92	90 - 110

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 410-63338/54

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N			2.50	2.64		mg/L		106	90 - 110

Lab Sample ID: 410-17392-1 MS

Matrix: Water

Analysis Batch: 63338

Client Sample ID: GW072-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.094	J	1.00	1.18		mg/L		109	90 - 110

Lab Sample ID: 410-17392-13 MS

Matrix: Water

Analysis Batch: 63338

Client Sample ID: GW048-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.45		1.00	1.43		mg/L		98	90 - 110

Lab Sample ID: 410-17392-14 MS

Matrix: Water

Analysis Batch: 63338

Client Sample ID: GW061-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.047	J	1.00	1.10		mg/L		105	90 - 110

Lab Sample ID: 410-17392-1 DU

Matrix: Water

Analysis Batch: 63338

Client Sample ID: GW072-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	RPD Limit
Nitrate Nitrite as N	0.094	J		0.0900	J	mg/L			4	10

Lab Sample ID: 410-17392-13 DU

Matrix: Water

Analysis Batch: 63338

Client Sample ID: GW048-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	RPD Limit
Nitrate Nitrite as N	0.45			0.423		mg/L			7	10

Lab Sample ID: 410-17392-14 DU

Matrix: Water

Analysis Batch: 63338

Client Sample ID: GW061-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	RPD Limit
Nitrate Nitrite as N	0.047	J		0.0470	J	mg/L			0	10

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

GC/MS VOA

Analysis Batch: 59362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total/NA	Water	8260C DOD	
410-17392-2	GW101-204	Total/NA	Water	8260C DOD	
410-17392-3	GW245-460-204	Total/NA	Water	8260C DOD	
410-17392-4	TB204-47	Total/NA	Water	8260C DOD	
410-17392-5	GW025-204	Total/NA	Water	8260C DOD	
410-17392-6	GW088-204	Total/NA	Water	8260C DOD	
410-17392-7	GW240-449-204	Total/NA	Water	8260C DOD	
410-17392-9	GW051-204	Total/NA	Water	8260C DOD	
410-17392-12	TB204-49	Total/NA	Water	8260C DOD	
410-17392-16	TB204-50	Total/NA	Water	8260C DOD	
MB 410-59362/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-59362/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-59362/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-59362/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-59362/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 59890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-8	TB204-48	Total/NA	Water	8260C DOD	
410-17392-10	GW051-604	Total/NA	Water	8260C DOD	
410-17392-11	GW102-204	Total/NA	Water	8260C DOD	
410-17392-13	GW048-204	Total/NA	Water	8260C DOD	
410-17392-14	GW061-204	Total/NA	Water	8260C DOD	
410-17392-15	GW081-204	Total/NA	Water	8260C DOD	
MB 410-59890/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-59890/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-59890/7	Lab Control Sample	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 58081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-15	GW081-204	Total/NA	Water	8011	
410-17392-16	TB204-50	Total/NA	Water	8011	
MB 410-58081/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58081/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58081/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-17392-15 MS	GW081-204	Total/NA	Water	8011	

Prep Batch: 58096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total/NA	Water	8011	
410-17392-2	GW101-204	Total/NA	Water	8011	
410-17392-3	GW245-460-204	Total/NA	Water	8011	
410-17392-4	TB204-47	Total/NA	Water	8011	
410-17392-5	GW025-204	Total/NA	Water	8011	
410-17392-6	GW088-204	Total/NA	Water	8011	
410-17392-7	GW240-449-204	Total/NA	Water	8011	
410-17392-8	TB204-48	Total/NA	Water	8011	
410-17392-9	GW051-204	Total/NA	Water	8011	
410-17392-10	GW051-604	Total/NA	Water	8011	

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QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

GC Semi VOA (Continued)

Prep Batch: 58096 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-11	GW102-204	Total/NA	Water	8011	
410-17392-12	TB204-49	Total/NA	Water	8011	
410-17392-13	GW048-204	Total/NA	Water	8011	
410-17392-14	GW061-204	Total/NA	Water	8011	
MB 410-58096/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58096/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58096/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 58622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total/NA	Water	8011	58096
410-17392-2	GW101-204	Total/NA	Water	8011	58096
410-17392-3	GW245-460-204	Total/NA	Water	8011	58096
410-17392-4	TB204-47	Total/NA	Water	8011	58096
410-17392-5	GW025-204	Total/NA	Water	8011	58096
410-17392-6	GW088-204	Total/NA	Water	8011	58096
410-17392-7	GW240-449-204	Total/NA	Water	8011	58096
410-17392-8	TB204-48	Total/NA	Water	8011	58096
410-17392-9	GW051-204	Total/NA	Water	8011	58096
410-17392-10	GW051-604	Total/NA	Water	8011	58096
410-17392-11	GW102-204	Total/NA	Water	8011	58096
410-17392-12	TB204-49	Total/NA	Water	8011	58096
410-17392-13	GW048-204	Total/NA	Water	8011	58096
410-17392-14	GW061-204	Total/NA	Water	8011	58096
410-17392-15	GW081-204	Total/NA	Water	8011	58081
410-17392-16	TB204-50	Total/NA	Water	8011	58081
MB 410-58081/1-A	Method Blank	Total/NA	Water	8011	58081
MB 410-58096/1-A	Method Blank	Total/NA	Water	8011	58096
LCS 410-58081/2-A	Lab Control Sample	Total/NA	Water	8011	58081
LCS 410-58096/2-A	Lab Control Sample	Total/NA	Water	8011	58096
LCSD 410-58081/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58081
LCSD 410-58096/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58096
410-17392-15 MS	GW081-204	Total/NA	Water	8011	58081

HPLC/IC

Analysis Batch: 56178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-2	GW101-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-2	GW101-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-3	GW245-460-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-3	GW245-460-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-5	GW025-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-5	GW025-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-6	GW088-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-7	GW240-449-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-7	GW240-449-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-9	GW051-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-9	GW051-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-10	GW051-604	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

HPLC/IC (Continued)

Analysis Batch: 56178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-10	GW051-604	Total/NA	Water	EPA 300.0 R2.1	
410-17392-11	GW102-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-13	GW048-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56178/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56178/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-17392-11 MS	GW102-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-11 DU	GW102-204	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 56222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-14	GW061-204	Total/NA	Water	EPA 300.0 R2.1	
410-17392-15	GW081-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56222/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56222/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 55546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-2	GW101-204	Total Recoverable	Water	3005A	
410-17392-3	GW245-460-204	Total Recoverable	Water	3005A	
410-17392-5	GW025-204	Total Recoverable	Water	3005A	
410-17392-6	GW088-204	Total Recoverable	Water	3005A	
410-17392-7	GW240-449-204	Total Recoverable	Water	3005A	
MB 410-55546/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-55546/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 55547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total Recoverable	Water	3005A	
410-17392-9	GW051-204	Total Recoverable	Water	3005A	
410-17392-10	GW051-604	Total Recoverable	Water	3005A	
410-17392-11	GW102-204	Total Recoverable	Water	3005A	
410-17392-13	GW048-204	Total Recoverable	Water	3005A	
410-17392-14	GW061-204	Total Recoverable	Water	3005A	
410-17392-15	GW081-204	Total Recoverable	Water	3005A	
MB 410-55547/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-55547/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 55716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total/NA	Water	3020A	
410-17392-2	GW101-204	Total/NA	Water	3020A	
410-17392-15	GW081-204	Total/NA	Water	3020A	
MB 410-55716/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-55716/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 55832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-2	GW101-204	Dissolved	Water	Non-Digest Prep	
410-17392-3	GW245-460-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Metals (Continued)

Prep Batch: 55832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-5	GW025-204	Dissolved	Water	Non-Digest Prep	
410-17392-6	GW088-204	Dissolved	Water	Non-Digest Prep	
410-17392-7	GW240-449-204	Dissolved	Water	Non-Digest Prep	
410-17392-9	GW051-204	Dissolved	Water	Non-Digest Prep	
410-17392-10	GW051-604	Dissolved	Water	Non-Digest Prep	
410-17392-11	GW102-204	Dissolved	Water	Non-Digest Prep	
410-17392-13	GW048-204	Dissolved	Water	Non-Digest Prep	
410-17392-14	GW061-204	Dissolved	Water	Non-Digest Prep	
MB 410-55832/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-55832/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 55843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Dissolved	Water	Non-Digest Prep	
410-17392-15	GW081-204	Dissolved	Water	Non-Digest Prep	
MB 410-55843/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-55843/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-17392-1 MS	GW072-204	Dissolved	Water	Non-Digest Prep	
410-17392-1 MSD	GW072-204	Dissolved	Water	Non-Digest Prep	
410-17392-1 DU	GW072-204	Dissolved	Water	Non-Digest Prep	

Analysis Batch: 55995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-2	GW101-204	Total Recoverable	Water	6010C	55546
410-17392-3	GW245-460-204	Total Recoverable	Water	6010C	55546
410-17392-5	GW025-204	Total Recoverable	Water	6010C	55546
410-17392-6	GW088-204	Total Recoverable	Water	6010C	55546
410-17392-7	GW240-449-204	Total Recoverable	Water	6010C	55546
MB 410-55546/1-A	Method Blank	Total Recoverable	Water	6010C	55546
LCS 410-55546/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55546

Analysis Batch: 56298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total/NA	Water	6020A	55716
410-17392-2	GW101-204	Total/NA	Water	6020A	55716
410-17392-15	GW081-204	Total/NA	Water	6020A	55716
MB 410-55716/1-A	Method Blank	Total/NA	Water	6020A	55716
LCS 410-55716/2-A	Lab Control Sample	Total/NA	Water	6020A	55716

Prep Batch: 56427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-3	GW245-460-204	Total/NA	Water	3020A	
410-17392-5	GW025-204	Total/NA	Water	3020A	
410-17392-6	GW088-204	Total/NA	Water	3020A	
410-17392-7	GW240-449-204	Total/NA	Water	3020A	
410-17392-9	GW051-204	Total/NA	Water	3020A	
410-17392-10	GW051-604	Total/NA	Water	3020A	
410-17392-11	GW102-204	Total/NA	Water	3020A	
410-17392-13	GW048-204	Total/NA	Water	3020A	
410-17392-14	GW061-204	Total/NA	Water	3020A	
MB 410-56427/1-A	Method Blank	Total/NA	Water	3020A	

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QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Metals (Continued)

Prep Batch: 56427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-56427/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 56483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-2	GW101-204	Total Recoverable	Water	6010C	55546
410-17392-3	GW245-460-204	Total Recoverable	Water	6010C	55546
410-17392-5	GW025-204	Total Recoverable	Water	6010C	55546
410-17392-6	GW088-204	Total Recoverable	Water	6010C	55546
410-17392-7	GW240-449-204	Total Recoverable	Water	6010C	55546
MB 410-55546/1-A	Method Blank	Total Recoverable	Water	6010C	55546
LCS 410-55546/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55546

Analysis Batch: 56592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Dissolved	Water	6010C	55843
410-17392-15	GW081-204	Dissolved	Water	6010C	55843
MB 410-55843/1-A	Method Blank	Total/NA	Water	6010C	55843
LCS 410-55843/2-A	Lab Control Sample	Total/NA	Water	6010C	55843
410-17392-1 MS	GW072-204	Dissolved	Water	6010C	55843
410-17392-1 MSD	GW072-204	Dissolved	Water	6010C	55843
410-17392-1 DU	GW072-204	Dissolved	Water	6010C	55843

Analysis Batch: 57422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-3	GW245-460-204	Total/NA	Water	6020A	56427
410-17392-5	GW025-204	Total/NA	Water	6020A	56427
410-17392-6	GW088-204	Total/NA	Water	6020A	56427
410-17392-7	GW240-449-204	Total/NA	Water	6020A	56427
410-17392-9	GW051-204	Total/NA	Water	6020A	56427
410-17392-10	GW051-604	Total/NA	Water	6020A	56427
410-17392-11	GW102-204	Total/NA	Water	6020A	56427
410-17392-13	GW048-204	Total/NA	Water	6020A	56427
410-17392-14	GW061-204	Total/NA	Water	6020A	56427
MB 410-56427/1-A	Method Blank	Total/NA	Water	6020A	56427
LCS 410-56427/2-A	Lab Control Sample	Total/NA	Water	6020A	56427

Analysis Batch: 57430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-2	GW101-204	Dissolved	Water	6010C	55832
410-17392-3	GW245-460-204	Dissolved	Water	6010C	55832
410-17392-5	GW025-204	Dissolved	Water	6010C	55832
410-17392-6	GW088-204	Dissolved	Water	6010C	55832
410-17392-7	GW240-449-204	Dissolved	Water	6010C	55832
410-17392-9	GW051-204	Dissolved	Water	6010C	55832
410-17392-10	GW051-604	Dissolved	Water	6010C	55832
410-17392-11	GW102-204	Dissolved	Water	6010C	55832
410-17392-13	GW048-204	Dissolved	Water	6010C	55832
410-17392-14	GW061-204	Dissolved	Water	6010C	55832
MB 410-55832/1-A	Method Blank	Total/NA	Water	6010C	55832
LCS 410-55832/2-A	Lab Control Sample	Total/NA	Water	6010C	55832

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Metals

Analysis Batch: 58319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total Recoverable	Water	6010C	55547
410-17392-9	GW051-204	Total Recoverable	Water	6010C	55547
410-17392-10	GW051-604	Total Recoverable	Water	6010C	55547
410-17392-11	GW102-204	Total Recoverable	Water	6010C	55547
410-17392-13	GW048-204	Total Recoverable	Water	6010C	55547
410-17392-14	GW061-204	Total Recoverable	Water	6010C	55547
410-17392-15	GW081-204	Total Recoverable	Water	6010C	55547
MB 410-55547/1-A	Method Blank	Total Recoverable	Water	6010C	55547
LCS 410-55547/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55547

Analysis Batch: 59041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total Recoverable	Water	6010C	55547
410-17392-9	GW051-204	Total Recoverable	Water	6010C	55547
410-17392-10	GW051-604	Total Recoverable	Water	6010C	55547
410-17392-11	GW102-204	Total Recoverable	Water	6010C	55547
410-17392-13	GW048-204	Total Recoverable	Water	6010C	55547
410-17392-14	GW061-204	Total Recoverable	Water	6010C	55547
410-17392-15	GW081-204	Total Recoverable	Water	6010C	55547
LCS 410-55547/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55547

General Chemistry

Analysis Batch: 56962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total/NA	Water	2320B-2011	
410-17392-2	GW101-204	Total/NA	Water	2320B-2011	
410-17392-3	GW245-460-204	Total/NA	Water	2320B-2011	
410-17392-5	GW025-204	Total/NA	Water	2320B-2011	
410-17392-6	GW088-204	Total/NA	Water	2320B-2011	
410-17392-7	GW240-449-204	Total/NA	Water	2320B-2011	
410-17392-9	GW051-204	Total/NA	Water	2320B-2011	
410-17392-10	GW051-604	Total/NA	Water	2320B-2011	
410-17392-11	GW102-204	Total/NA	Water	2320B-2011	
410-17392-13	GW048-204	Total/NA	Water	2320B-2011	
410-17392-14	GW061-204	Total/NA	Water	2320B-2011	
410-17392-15	GW081-204	Total/NA	Water	2320B-2011	
MB 410-56962/49	Method Blank	Total/NA	Water	2320B-2011	
MB 410-56962/66	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-56962/52	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-56962/67	Lab Control Sample	Total/NA	Water	2320B-2011	
410-17392-10 MS	GW051-604	Total/NA	Water	2320B-2011	
410-17392-10 DU	GW051-604	Total/NA	Water	2320B-2011	
410-17392-11 DU	GW102-204	Total/NA	Water	2320B-2011	

Analysis Batch: 63338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-1	GW072-204	Total/NA	Water	353.2	
410-17392-2	GW101-204	Total/NA	Water	353.2	
410-17392-3	GW245-460-204	Total/NA	Water	353.2	
410-17392-5	GW025-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

General Chemistry (Continued)

Analysis Batch: 63338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17392-6	GW088-204	Total/NA	Water	353.2	
410-17392-7	GW240-449-204	Total/NA	Water	353.2	
410-17392-9	GW051-204	Total/NA	Water	353.2	
410-17392-10	GW051-604	Total/NA	Water	353.2	
410-17392-11	GW102-204	Total/NA	Water	353.2	
410-17392-13	GW048-204	Total/NA	Water	353.2	
410-17392-14	GW061-204	Total/NA	Water	353.2	
410-17392-15	GW081-204	Total/NA	Water	353.2	
MB 410-63338/142	Method Blank	Total/NA	Water	353.2	
MB 410-63338/53	Method Blank	Total/NA	Water	353.2	
LCS 410-63338/143	Lab Control Sample	Total/NA	Water	353.2	
LCS 410-63338/54	Lab Control Sample	Total/NA	Water	353.2	
410-17392-1 MS	GW072-204	Total/NA	Water	353.2	
410-17392-13 MS	GW048-204	Total/NA	Water	353.2	
410-17392-14 MS	GW061-204	Total/NA	Water	353.2	
410-17392-1 DU	GW072-204	Total/NA	Water	353.2	
410-17392-13 DU	GW048-204	Total/NA	Water	353.2	
410-17392-14 DU	GW061-204	Total/NA	Water	353.2	

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW072-204

Lab Sample ID: 410-17392-1

Date Collected: 10/15/20 11:15

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 15:26	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 07:23	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 15:47	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55843	10/19/20 09:27	UAMX	ELLE
Dissolved	Analysis	6010C		1	56592	10/20/20 19:43	UCIG	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58319	10/25/20 12:18	MDP5	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	59041	10/27/20 10:37	MDP5	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:34	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 04:12	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:20	KGQ6	ELLE

Client Sample ID: GW101-204

Lab Sample ID: 410-17392-2

Date Collected: 10/14/20 14:49

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 14:20	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 07:39	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 10:40	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	56178	10/20/20 10:57	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:06	UPJE	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55995	10/19/20 15:40	UCIG	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56483	10/20/20 16:03	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:40	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 04:19	JB	ELLE
Total/NA	Analysis	353.2		2	63338	11/07/20 14:23	KGQ6	ELLE

Client Sample ID: GW245-460-204

Lab Sample ID: 410-17392-3

Date Collected: 10/14/20 11:00

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 14:42	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 07:56	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW245-460-204

Lab Sample ID: 410-17392-3

Date Collected: 10/14/20 11:00

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 11:14	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	56178	10/20/20 12:05	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:03	UPJE	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55995	10/19/20 15:36	UCIG	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56483	10/20/20 16:00	UCIG	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:21	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 04:25	JB	ELLE
Total/NA	Analysis	353.2		2	63338	11/07/20 14:25	KGQ6	ELLE

Client Sample ID: TB204-47

Lab Sample ID: 410-17392-4

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 12:52	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 08:13	AC3T	ELLE

Client Sample ID: GW025-204

Lab Sample ID: 410-17392-5

Date Collected: 10/15/20 10:15

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 15:04	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 08:30	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 12:22	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	56178	10/20/20 12:39	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:09	UPJE	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55995	10/19/20 15:33	UCIG	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56483	10/20/20 15:57	UCIG	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:20	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 04:31	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:26	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW088-204

Lab Sample ID: 410-17392-6

Date Collected: 10/15/20 10:45

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 15:48	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 08:46	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 12:57	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:18	UPJE	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55995	10/19/20 15:30	UCIG	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56483	10/20/20 15:54	UCIG	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:18	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 03:40	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:27	KGQ6	ELLE

Client Sample ID: GW240-449-204

Lab Sample ID: 410-17392-7

Date Collected: 10/15/20 08:45

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 16:10	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 09:03	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 13:31	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	56178	10/20/20 13:48	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:21	UPJE	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	55995	10/19/20 15:27	UCIG	ELLE
Total Recoverable	Prep	3005A			55546	10/17/20 14:02	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56483	10/20/20 15:51	UCIG	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:16	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 03:46	JB	ELLE
Total/NA	Analysis	353.2		2	63338	11/07/20 14:28	KGQ6	ELLE

Client Sample ID: TB204-48

Lab Sample ID: 410-17392-8

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 13:40	K4WN	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 09:20	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW051-204

Lab Sample ID: 410-17392-9

Date Collected: 10/15/20 09:30

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 16:32	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 09:37	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 14:05	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	56178	10/20/20 14:22	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:24	UPJE	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58319	10/25/20 12:21	MDP5	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	59041	10/27/20 10:40	MDP5	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:14	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 03:23	JB	ELLE
Total/NA	Analysis	353.2		2	63338	11/07/20 14:29	KGQ6	ELLE

Client Sample ID: GW051-604

Lab Sample ID: 410-17392-10

Date Collected: 10/15/20 09:30

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 16:37	K4WN	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 09:53	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 14:39	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	56178	10/20/20 15:30	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:27	UPJE	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58319	10/25/20 12:24	MDP5	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	59041	10/27/20 10:43	MDP5	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:12	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 02:49	JB	ELLE
Total/NA	Analysis	353.2		2	63338	11/07/20 14:30	KGQ6	ELLE

Client Sample ID: GW102-204

Lab Sample ID: 410-17392-11

Date Collected: 10/15/20 08:59

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 16:59	K4WN	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW102-204

Lab Sample ID: 410-17392-11

Date Collected: 10/15/20 08:59

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 10:44	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 09:49	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:30	UPJE	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58319	10/25/20 12:27	MDP5	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	59041	10/27/20 10:46	MDP5	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:03	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 03:10	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:34	KGQ6	ELLE

Client Sample ID: TB204-49

Lab Sample ID: 410-17392-12

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 13:36	NSK7	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 11:00	AC3T	ELLE

Client Sample ID: GW048-204

Lab Sample ID: 410-17392-13

Date Collected: 10/15/20 11:11

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 17:21	K4WN	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 11:17	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56178	10/20/20 16:21	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:33	UPJE	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58319	10/25/20 12:30	MDP5	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	59041	10/27/20 10:49	MDP5	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:05	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 03:53	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:57	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Client Sample ID: GW061-204

Lab Sample ID: 410-17392-14

Date Collected: 10/15/20 15:09

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 17:43	K4WN	ELLE
Total/NA	Prep	8011			58096	10/24/20 07:38	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 11:34	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56222	10/21/20 02:35	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55832	10/19/20 09:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	57430	10/22/20 12:36	UPJE	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58319	10/25/20 12:33	MDP5	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	59041	10/27/20 10:52	MDP5	ELLE
Total/NA	Prep	3020A			56427	10/20/20 14:00	UJLA	ELLE
Total/NA	Analysis	6020A		1	57422	10/21/20 17:10	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 03:59	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:35	KGQ6	ELLE

Client Sample ID: GW081-204

Lab Sample ID: 410-17392-15

Date Collected: 10/15/20 13:26

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 18:05	K4WN	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 11:50	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56222	10/21/20 03:09	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55843	10/19/20 09:27	UAMX	ELLE
Dissolved	Analysis	6010C		1	56592	10/20/20 20:01	UCIG	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58319	10/25/20 12:36	MDP5	ELLE
Total Recoverable	Prep	3005A			55547	10/17/20 14:05	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	59041	10/27/20 10:55	MDP5	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:51	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 04:06	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:39	KGQ6	ELLE

Client Sample ID: TB204-50

Lab Sample ID: 410-17392-16

Date Collected: 10/15/20 12:00

Matrix: Water

Date Received: 10/16/20 09:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59362	10/28/20 13:58	NSK7	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 12:24	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17392-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-17392-1	GW072-204	Water	10/15/20 11:15	10/16/20 09:48	
410-17392-2	GW101-204	Water	10/14/20 14:49	10/16/20 09:48	
410-17392-3	GW245-460-204	Water	10/14/20 11:00	10/16/20 09:48	
410-17392-4	TB204-47	Water	10/15/20 12:00	10/16/20 09:48	
410-17392-5	GW025-204	Water	10/15/20 10:15	10/16/20 09:48	
410-17392-6	GW088-204	Water	10/15/20 10:45	10/16/20 09:48	
410-17392-7	GW240-449-204	Water	10/15/20 08:45	10/16/20 09:48	
410-17392-8	TB204-48	Water	10/15/20 12:00	10/16/20 09:48	
410-17392-9	GW051-204	Water	10/15/20 09:30	10/16/20 09:48	
410-17392-10	GW051-604	Water	10/15/20 09:30	10/16/20 09:48	
410-17392-11	GW102-204	Water	10/15/20 08:59	10/16/20 09:48	
410-17392-12	TB204-49	Water	10/15/20 12:00	10/16/20 09:48	
410-17392-13	GW048-204	Water	10/15/20 11:11	10/16/20 09:48	
410-17392-14	GW061-204	Water	10/15/20 15:09	10/16/20 09:48	
410-17392-15	GW081-204	Water	10/15/20 13:26	10/16/20 09:48	
410-17392-16	TB204-50	Water	10/15/20 12:00	10/16/20 09:48	



410-17392 Chain of Custody



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-072-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate, and Bicarbonate) (5423208)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW072-204	10-15-2020	1115	10	3	—	2	1	1*	1	1	1					
2																	
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Begaye*

COURIER AND SHIPPING NUMBER: **FedEx 7718 1018 6117**

TB204- *97*

RELINQUISHED BY:

DATE

TIME

RECEIVED BY:

DATE

TIME

Printed Name and Signature: *Gabejin Begaye*

10-15-2020

1730

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature: *Wesley Miller*

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-101-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

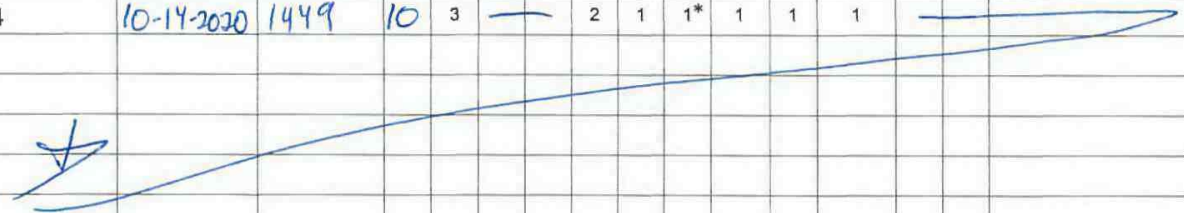
YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A, 6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	(RSK-175)		
1	GW101-204	10-14-2020	1449	10	3	—	2	1	1*	1	1	1	—				
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 1807B-710

SAMPLER(S):
D. Schmeelk

RELINQUISHED BY:
D. Schmeelk

DATE
10/15/2020

TIME
1730

COURIER AND SHIPPING NUMBER:
FedEx 7718 1018 6117

RECEIVED BY:
Westley Miller

DATE
10/16/2020

TIME
1025

Printed Name and Signature:
D. Schmeelk

Printed Name and Signature:
Westley Miller

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-245-460-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0) (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)			
1	GW245-460-204	10-14-2020	1100	10	3	1	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Begaye*

COURIER AND SHIPPING NUMBER: FedEx *7718 1018 6117*

TB204- *47*

RELINQUISHED BY: *Gabe*

DATE: *10-14-2020*

TIME: *1530*

Printed Name and Signature: *Gabe*

Printed Name and Signature: *Wesley Miller*

DATE: *10/16/2020*

TIME: *1025*

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204- 47	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2260C)	BTEX (2280C)	BTEXN (2280C)	EDB (2011)	Total As, Pb, Cd, Na, Mg (2020A/610C)	Dissolved Fe, Mn (2020A/610C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS	
1	TB204- 47	10/15/2020	1200	4	2			2							
2															
3															
4															
5	JRL														
Associated with: GW101-204 GW245-460-204 GW072-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6117											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston				10/15/2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Wesley Miller				11/16/20		ms	

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-025-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M/2320B)	Carbon Dioxide (RSK-175)	Comments	
1	GW025-204	10-15-2020	1015	10	3	—	2	1	1*	1	1	1		 10-15-2020	
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <u>G. Begay</u> COURIER AND SHIPPING NUMBER: <u>FedEx 7718 1018 6128</u>															
RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____ DATE: _____ TIME: _____															
Printed Name and Signature: <u>Galveston Begay</u> <u>10-15-2020 1730</u> Printed Name and Signature: _____															
Printed Name and Signature: _____ Printed Name and Signature: _____															
Printed Name and Signature: _____ Printed Name and Signature: <u>Moore Ruff</u> <u>10/16/20 1832</u>															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-088-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

YEAR: **2020**

QUARTER: **4 (Oct-Dec)**

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Ca, K, Na, Mg) (8011)	Disolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)			
1	GW088-204	10-15-2020	1045	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Begay*

RELINQUISHED BY: *G. Begay* DATE: 10-15-2020 TIME: 1730

Printed Name and Signature: *G. Begay*

Printed Name and Signature: *G. Begay*

Printed Name and Signature: *G. Begay*

COURIER AND SHIPPING NUMBER: FedEx *7718 1018 6128*

RECEIVED BY: *Nicole Ruff* DATE: 10/16/20 TIME: 1632

Printed Name and Signature: *Nicole Ruff*

Printed Name and Signature: *Nicole Ruff*

Printed Name and Signature: *Nicole Ruff*

gen

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

Page 90 of 100

F-2-1177

11/12/2020
March 2021

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-240-449-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)					
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS			
				Total Number of Bottles	VOCs	BTEX	BTEXN	EDB	(6011)	Total (As, Pb, Cd, Ni, Mg)	Dissolved Fe, Mn	(6010C)	Chloride, bromide, sulfate		Nitrate-Nitrite	Alkalinity	Carbon Dioxide
1	GW240-449-204	10-15-2020	0845	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
SAMPLER(S): <u>G. Begaye</u> TB204-48 RELINQUISHED BY: <u>Gabein Begaye</u> DATE: <u>10-15-2020</u> TIME: <u>1730</u> COURIER AND SHIPPING NUMBER: <u>FedEx 7718 1018 6128</u> RECEIVED BY: <u>Nicole Reiff</u> DATE: <u>10/16/20</u> TIME: <u>1032</u>																	

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		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER <b style="background-color: yellow;">COC-TB204-48	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 4	
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As, Pb, Ca, K, Na, Mg (8011)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (50230B)	COMMENTS		
1	TB204-48	10/15/2020	1200	4	2	—	2								
2															
3															
4															
5															
Associated with: GW088-204 GW025-204 GW240-449-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6472 6128											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston				10/15/2020		1730		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Nicole Reiff				10/16/20		1032	

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		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER <b style="background-color: yellow;">COC-051-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW051-204	10-15-2020	0930	10	3	—	—	2	1	1*	1	1	1			
2	GW051-604	10-15-2020	0930	10	3	—	—	2	1	1*	1	1	1			
3	GB															
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6139						
RELINQUISHED BY:										RECEIVED BY:						
DATE: 10-15-2020 TIME: 1730										DATE: 10/16/20 TIME: 1039						
Printed Name and Signature: <i>Gabriel Begaye</i>										Printed Name and Signature: <i>Nicole Ruff</i>						
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-102-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Ca, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (300.0)	(353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M/23208)	Carbon Dioxide (RSK-175)	
1	GW102-204	10-15-2020	0859	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 1807B-710

SAMPLER(S): D. Schuelek

RELINQUISHED BY: [Signature] DATE: 10-15-2020 TIME: 1730

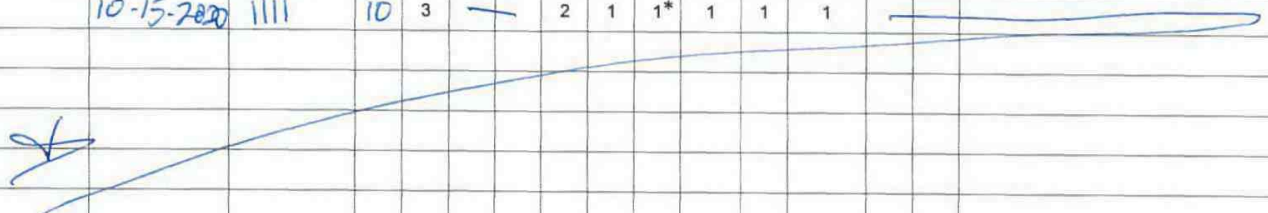
COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6139

TB204- 49

RECEIVED BY: [Signature] DATE: 10/16/20 TIME: 1039

DEM

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-49	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/610C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS		
1	TB204-49	10/15/2020	1200	4	2		2						JRL		
2															
3															
4															
5															
Associated with: GW051-204 GW051-604 GW102-204															
SAMPLER(S): J Livhyston				COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6139											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livhyston				10/15/2020	1730	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: NICOLE Reiff				10/16/20	1039				

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-048-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (6011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	COMMENTS
1	GW048-204	10-15-2020	1111	10	3	—	—	2	1	1*	1	1	1	—	—	
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk																
RELINQUISHED BY:										COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6140						
DATE: 10-15-2020 TIME: 1730										RECEIVED BY:						
Printed Name and Signature: D. Schmeelk										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-061-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	ED8 (8260C) BTEXN	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C) (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3332)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM2320B)	Methane (RSC-175)	COMMENTS	
1	GW061-204	10-15-2020	1509	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-710 SAMPLER(S): Riley Wither RELINQUISHED BY: DATE: 10-15-2020 TIME: 1730 COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6140 RECEIVED BY: DATE: 10/16/20 TIME: 1034 Printed Name and Signature: DATE: 10-15-2020 TIME: 1730 Printed Name and Signature: DATE: 10/16/20 TIME: 1034 Printed Name and Signature: DATE: 10/16/20 TIME: 1034															

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-081-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)			
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	ED8 (8260C) BTEXN	ED8 (8260C) BTEXN	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C) (6011)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (5M/2320B)	Methane (MSK-175)	COMMENTS
1	GW081-204	10-15-2020	1326	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-710 SAMPLER(S): D. Schneelk RELINQUISHED BY: <i>[Signature]</i> DATE: 10-15-2020 TIME: 1730 PRINTED NAME AND SIGNATURE: D. Schneelk PRINTED NAME AND SIGNATURE: <i>[Signature]</i> PRINTED NAME AND SIGNATURE: <i>[Signature]</i> PRINTED NAME AND SIGNATURE: <i>[Signature]</i>															
COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6140 RECEIVED BY: <i>[Signature]</i> DATE: 10/16/20 TIME: 1034 PRINTED NAME AND SIGNATURE: MICOR RUFF PRINTED NAME AND SIGNATURE: <i>[Signature]</i>															

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-50	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (352.2)	COMMENTS		
1	TB204-50	10/15/2020	1200	4	2	—	2								
2															
3															
4															
5	JRL														
Associated with: GW048-204 GW081-204 GB SWB204-01 GB SWB204-02 GW061-204															
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7718 1018 6140											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J Livingston				10/15/2020	1730	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Ruff				10/16/20	1034				

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-17392-1

Login Number: 17392

List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Reiff, Nicole L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-17563-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/11/2020 2:45:34 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Darlene Bandy

Project Manager I

11/11/2020 2:45:34 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Job ID: 410-17563-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17563-1

Receipt

The samples were received on 10/17/2020 9:47 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.5° C.

GC/MS VOA

Method 8260C DOD: The response for 2-Butanone, 2-Hexanone, Acetone, Acrolein, and Acrylonitrile in the continuing calibration verification (CCV) marginally exceeds, low-biased, the DoD acceptance criteria on batch 410-59890. Due to the marginal nature of the outlier(s), the data is reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW066-204 (410-17563-1), SWB204-01 (410-17563-2), SWB204-02 (410-17563-3) and TB204-52 (410-17563-4). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The response for Hexachlorobutadiene in the initial calibration verification associated with batch 410-59890 marginally exceeds the DoD acceptance criteria. Due to the marginal nature of the outlier(s), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: GW066-204

Lab Sample ID: 410-17563-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Chloride	7.8	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	32	J1	0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	4.5	J1	0.10	0.075	0.040	mg/L	1			6010C	Recoverable Total
Potassium	2.0		0.50	0.38	0.20	mg/L	1			6010C	Recoverable Total
Sodium	21	J1	1.0	0.50	0.24	mg/L	1			6010C	Recoverable Total
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.43		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: SWB204-01

Lab Sample ID: 410-17563-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.6	J Q M	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA

Client Sample ID: SWB204-02

Lab Sample ID: 410-17563-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Bromodichloromethane	0.65	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Bromoform	5.9		4.0	2.0	1.0	ug/L	1			8260C DOD	Total/NA
Chloroform	0.46	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Dibromochloromethane	0.95	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA

Client Sample ID: TB204-52

Lab Sample ID: 410-17563-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: GW066-204

Lab Sample ID: 410-17563-1

Date Collected: 10/16/20 12:39

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:28	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 18:28	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:28	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:28	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:28	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:28	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:28	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 18:28	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 18:28	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 18:28	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 18:28	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 18:28	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 18:28	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 18:28	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:28	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 18:28	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 18:28	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: GW066-204

Lab Sample ID: 410-17563-1

Date Collected: 10/16/20 12:39

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:28	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:28	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:28	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 18:28	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:28	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:28	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 18:28	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:28	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/29/20 18:28	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 18:28	1
Dibromofluoromethane (Surr)	103		80 - 119		10/29/20 18:28	1
Toluene-d8 (Surr)	97		89 - 112		10/29/20 18:28	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/25/20 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	72		46 - 136	10/24/20 06:40	10/25/20 16:18	1
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136	10/24/20 06:40	10/25/20 16:18	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 07:59	5
Chloride	7.8	D	2.0	1.5	1.0	mg/L		10/21/20 07:59	5
Sulfate	27	D	5.0	4.5	1.5	mg/L		10/21/20 07:59	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	32	J1	0.20	0.15	0.096	mg/L		10/20/20 16:51	1
Magnesium	4.5	J1	0.10	0.075	0.040	mg/L		10/20/20 16:51	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/20/20 16:51	1
Sodium	21	J1	1.0	0.50	0.24	mg/L		10/20/20 16:51	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 20:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: GW066-204

Lab Sample ID: 410-17563-1

Date Collected: 10/16/20 12:39

Matrix: Water

Date Received: 10/17/20 09:47

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 20:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0012	J	0.0020	0.0016	0.00068	mg/L		10/19/20 21:41	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:41	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/21/20 05:02	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 05:02	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/21/20 05:02	1
Nitrate Nitrite as N	0.43		0.10	0.090	0.040	mg/L		11/07/20 14:40	1

Client Sample ID: SWB204-01

Lab Sample ID: 410-17563-2

Date Collected: 10/15/20 12:45

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:50	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 18:50	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:50	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:50	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:50	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:50	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:50	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 18:50	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 18:50	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 18:50	1
Acetone	1.6	J Q M	20	2.0	0.70	ug/L		10/29/20 18:50	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 18:50	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 18:50	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: SWB204-01

Lab Sample ID: 410-17563-2

Date Collected: 10/15/20 12:45

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 18:50	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:50	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Chloromethane	0.50	U M	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 18:50	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 18:50	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:50	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 18:50	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 18:50	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 18:50	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 18:50	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 18:50	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 18:50	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 18:50	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/29/20 18:50	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/29/20 18:50	1
Dibromofluoromethane (Surr)	103		80 - 119		10/29/20 18:50	1
Toluene-d8 (Surr)	97		89 - 112		10/29/20 18:50	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 16:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: SWB204-01

Lab Sample ID: 410-17563-2

Date Collected: 10/15/20 12:45

Matrix: Water

Date Received: 10/17/20 09:47

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	69		46 - 136	10/24/20 06:40	10/25/20 16:35	1
1,1,2,2-Tetrachloroethane (2C)	71		46 - 136	10/24/20 06:40	10/25/20 16:35	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/20/20 17:13	1
Iron	0.10	U	0.20	0.10	0.040	mg/L		10/20/20 17:13	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/20/20 17:13	1
Manganese	0.0050	U	0.010	0.0050	0.0030	mg/L		10/20/20 17:13	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/20/20 17:13	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/20/20 17:13	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 21:47	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:47	1

Client Sample ID: SWB204-02

Lab Sample ID: 410-17563-3

Date Collected: 10/15/20 13:00

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:12	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 19:12	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:12	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:12	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:12	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:12	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:12	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 19:12	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 19:12	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 19:12	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 19:12	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 19:12	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: SWB204-02

Lab Sample ID: 410-17563-3

Date Collected: 10/15/20 13:00

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 19:12	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
Bromodichloromethane	0.65	J	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Bromoform	5.9		4.0	2.0	1.0	ug/L		10/29/20 19:12	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:12	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Chloroform	0.46	J	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Dibromochloromethane	0.95	J	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 19:12	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 19:12	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:12	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:12	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:12	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 19:12	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:12	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:12	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 19:12	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:12	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/29/20 19:12	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/29/20 19:12	1
Dibromofluoromethane (Surr)	102		80 - 119		10/29/20 19:12	1
Toluene-d8 (Surr)	97		89 - 112		10/29/20 19:12	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: SWB204-02

Lab Sample ID: 410-17563-3

Date Collected: 10/15/20 13:00

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/25/20 17:25	1
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed
1,1,2,2-Tetrachloroethane (1C)	62		46 - 136					10/24/20 06:40	10/25/20 17:25
1,1,2,2-Tetrachloroethane (2C)	62		46 - 136					10/24/20 06:40	10/25/20 17:25

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/20/20 17:22	1
Iron	0.10	U	0.20	0.10	0.040	mg/L		10/20/20 17:22	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/20/20 17:22	1
Manganese	0.0050	U	0.010	0.0050	0.0030	mg/L		10/20/20 17:22	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/20/20 17:22	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/20/20 17:22	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 21:49	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:49	1

Client Sample ID: TB204-52

Lab Sample ID: 410-17563-4

Date Collected: 10/16/20 12:00

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:34	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 12:34	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,2,4-Trichlorobenzene	1.0	U M	5.0	1.0	0.30	ug/L		10/29/20 12:34	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 12:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 12:34	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:34	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 12:34	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:34	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 12:34	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 12:34	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: TB204-52

Lab Sample ID: 410-17563-4

Date Collected: 10/16/20 12:00

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 12:34	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 12:34	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 12:34	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 12:34	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 12:34	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:34	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 12:34	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 12:34	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 12:34	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:34	1
Naphthalene	2.0	U M	5.0	2.0	1.0	ug/L		10/29/20 12:34	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 12:34	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:34	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 12:34	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 12:34	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:34	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/29/20 12:34	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 12:34	1
Dibromofluoromethane (Surr)	101		80 - 119		10/29/20 12:34	1
Toluene-d8 (Surr)	99		89 - 112		10/29/20 12:34	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: TB204-52

Lab Sample ID: 410-17563-4

Date Collected: 10/16/20 12:00

Matrix: Water

Date Received: 10/17/20 09:47

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L	—	10/25/20 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	68		46 - 136				10/24/20 06:40	10/25/20 17:42	1
1,1,2,2-Tetrachloroethane (2C)	67		46 - 136				10/24/20 06:40	10/25/20 17:42	1

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Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-17563-1	GW066-204	104	96	103	97
410-17563-2	SWB204-01	103	95	103	97
410-17563-3	SWB204-02	104	95	102	97
410-17563-4	TB204-52	100	96	101	99
LCS 410-59890/5	Lab Control Sample	99	99	100	99
LCS 410-59890/7	Lab Control Sample	101	97	99	100
MB 410-59890/10	Method Blank	99	96	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1122TCA1 (46-136)	1122TCA2 (46-136)
410-17563-1	GW066-204	72	72
410-17563-2	SWB204-01	69	71
410-17563-3	SWB204-02	62	62
410-17563-4	TB204-52	68	67
LCS 410-58081/2-A	Lab Control Sample	70	67
LCSD 410-58081/3-A	Lab Control Sample Dup	81	80
MB 410-58081/1-A	Method Blank	67	68

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-59890/10

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 11:32	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/29/20 11:32	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/29/20 11:32	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 11:32	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/29/20 11:32	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/29/20 11:32	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/29/20 11:32	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 11:32	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 11:32	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/29/20 11:32	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-59890/10

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 11:32	1
p-Isopropyltoluene	2.41	J M	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
sec-Butylbenzene	2.25	J	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 11:32	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/29/20 11:32	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 11:32	1
Dibromofluoromethane (Surr)	99		80 - 119		10/29/20 11:32	1
Toluene-d8 (Surr)	99		89 - 112		10/29/20 11:32	1

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.9		ug/L		95	78 - 124
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	20.0	17.6		ug/L		88	71 - 121
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 119
1,1-Dichloroethane	20.0	18.7		ug/L		94	77 - 125
1,1-Dichloroethene	20.0	19.4		ug/L		97	71 - 131
1,1-Dichloropropene	20.0	18.8		ug/L		94	79 - 125
1,2,3-Trichlorobenzene	20.0	18.3		ug/L		91	69 - 129
1,2,3-Trichloropropane	20.0	18.2		ug/L		91	73 - 122
1,2,4-Trichlorobenzene	20.0	18.7		ug/L		93	69 - 130
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		94	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/L		88	62 - 128
1,2-Dibromoethane	20.0	18.6		ug/L		93	77 - 121
1,2-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 119
1,2-Dichloroethane	20.0	18.5		ug/L		93	73 - 128

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	18.8		ug/L		94	78 - 122
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	75 - 124
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 119
1,3-Dichloropropane	20.0	18.3		ug/L		92	80 - 119
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	79 - 118
2,2-Dichloropropane	20.0	19.9		ug/L		100	60 - 139
2-Butanone	150	165		ug/L		110	56 - 143
2-Chlorotoluene	20.0	18.8		ug/L		94	79 - 122
2-Hexanone	100	100		ug/L		100	57 - 139
4-Chlorotoluene	20.0	18.9		ug/L		94	78 - 122
4-Methyl-2-pentanone	100	88.9		ug/L		89	67 - 130
Acetone	150	236		ug/L		157	39 - 160
Acrolein	150	126		ug/L		84	39 - 155
Acrylonitrile	100	84.3		ug/L		84	63 - 135
Benzene	20.0	18.7		ug/L		94	42 - 138
Bromobenzene	20.0	18.9		ug/L		95	80 - 120
Bromochloromethane	20.0	18.0		ug/L		90	78 - 123
Bromodichloromethane	20.0	18.8		ug/L		94	79 - 125
Bromoform	20.0	19.2		ug/L		96	66 - 130
Bromomethane	20.0	17.4		ug/L		87	53 - 141
Carbon disulfide	20.0	18.8		ug/L		94	64 - 133
Carbon tetrachloride	20.0	19.3		ug/L		96	72 - 136
Chlorobenzene	20.0	19.3		ug/L		97	82 - 118
Chloroethane	20.0	16.7		ug/L		83	60 - 138
Chloroform	20.0	19.0		ug/L		95	79 - 124
Chloromethane	20.0	16.1		ug/L		80	50 - 139
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	78 - 123
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	75 - 124
Dibromochloromethane	20.0	20.4		ug/L		102	74 - 126
Dibromomethane	20.0	18.9		ug/L		95	79 - 123
Dichlorodifluoromethane	20.0	15.2		ug/L		76	32 - 152
Ethylbenzene	20.0	19.4		ug/L		97	79 - 121
Hexachlorobutadiene	20.0	18.8		ug/L		94	66 - 134
Isopropylbenzene	20.0	19.9		ug/L		100	72 - 131
m&p-Xylene	40.0	39.4		ug/L		99	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	18.9		ug/L		94	74 - 124
Naphthalene	20.0	18.6		ug/L		93	61 - 128
n-Butylbenzene	20.0	18.5		ug/L		92	75 - 128
N-Propylbenzene	20.0	19.2		ug/L		96	76 - 126
o-Xylene	20.0	19.6		ug/L		98	78 - 122
p-Isopropyltoluene	20.0	19.4		ug/L		97	77 - 127
sec-Butylbenzene	20.0	19.2		ug/L		96	77 - 126
Styrene	20.0	19.6		ug/L		98	78 - 123
tert-Butylbenzene	20.0	20.9		ug/L		104	78 - 124
Tetrachloroethene	20.0	20.9		ug/L		105	74 - 129
Toluene	20.0	19.0		ug/L		95	80 - 121
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	75 - 124
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.1		ug/L		96	79 - 123
Trichlorofluoromethane	20.0	17.5	M	ug/L		87	65 - 141
Vinyl chloride	20.0	17.7		ug/L		88	58 - 137
Xylenes, Total	60.0	59.0		ug/L		98	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-59890/7

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	101		ug/L		101	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-58081/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58081

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 18:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	67		46 - 136	10/24/20 06:40	10/24/20 18:16	1
1,1,2,2-Tetrachloroethane (2C)	68		46 - 136	10/24/20 06:40	10/24/20 18:16	1

Lab Sample ID: LCS 410-58081/2-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.118		ug/L		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	70		46 - 136
1,1,2,2-Tetrachloroethane (2C)	67		46 - 136

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-58081/3-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.130		ug/L		101	60 - 140	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	80		46 - 136						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-56222/4

Matrix: Water

Analysis Batch: 56222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/21/20 01:27	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/21/20 01:27	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/21/20 01:27	1

Lab Sample ID: LCS 410-56222/3

Matrix: Water

Analysis Batch: 56222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.46		mg/L		99	90 - 110
Chloride	3.00	2.98		mg/L		99	90 - 110
Sulfate	7.50	7.60		mg/L		101	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-55843/1-A

Matrix: Water

Analysis Batch: 56592

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55843

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 19:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 19:36	1

Lab Sample ID: LCS 410-55843/2-A

Matrix: Water

Analysis Batch: 56592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.389		mg/L		97	87 - 115
Manganese	0.0200	0.0207		mg/L		104	90 - 114

Lab Sample ID: MB 410-55955/1-A

Matrix: Water

Analysis Batch: 56520

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55955

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/20/20 16:45	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-55955/1-A

Matrix: Water

Analysis Batch: 56520

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 55955

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.20	0.10	0.040	mg/L		10/20/20 16:45	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/20/20 16:45	1
Manganese	0.0050	U	0.010	0.0050	0.0030	mg/L		10/20/20 16:45	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/20/20 16:45	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/20/20 16:45	1

Lab Sample ID: LCS 410-55955/2-A

Matrix: Water

Analysis Batch: 56520

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 55955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.405		mg/L		101	87 - 113
Iron	0.402	0.428		mg/L		106	87 - 115
Magnesium	0.200	0.215		mg/L		108	85 - 113
Manganese	0.0200	0.0215		mg/L		108	90 - 114
Potassium	5.60	5.54		mg/L		99	86 - 114
Sodium	2.00	2.05		mg/L		103	87 - 115

Lab Sample ID: 410-17563-1 MS

Matrix: Water

Analysis Batch: 56520

Client Sample ID: GW066-204

Prep Type: Total Recoverable

Prep Batch: 55955

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	32	J1	0.400	32.0	4	mg/L		-32	87 - 113
Iron	100	U J1	0.402	0.468	4	mg/L		116	87 - 115
Magnesium	4.5	J1	0.200	4.66	4	mg/L		59	85 - 113
Manganese	5.0	U	0.0200	0.0220	4	mg/L		110	90 - 114
Potassium	2.0		5.60	7.42		mg/L		97	86 - 114
Sodium	21	J1	2.00	22.9	4	mg/L		87	87 - 115

Lab Sample ID: 410-17563-1 MSD

Matrix: Water

Analysis Batch: 56520

Client Sample ID: GW066-204

Prep Type: Total Recoverable

Prep Batch: 55955

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	32	J1	0.400	31.9	4	mg/L		-59	87 - 113	0	20
Iron	100	U J1	0.402	0.467	4	mg/L		116	87 - 115	0	20
Magnesium	4.5	J1	0.200	4.64	4	mg/L		51	85 - 113	0	20
Manganese	5.0	U	0.0200	0.0219	4	mg/L		110	90 - 114	0	20
Potassium	2.0		5.60	7.46		mg/L		98	86 - 114	1	20
Sodium	21	J1	2.00	22.8	4	mg/L		85	87 - 115	0	20

Lab Sample ID: 410-17563-1 DU

Matrix: Water

Analysis Batch: 56520

Client Sample ID: GW066-204

Prep Type: Total Recoverable

Prep Batch: 55955

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	32	J1	32.3		mg/L		0.5	20
Iron	100	U J1	0.0471	J	mg/L		NC	20
Magnesium	4.5	J1	4.57		mg/L		0.6	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-17563-1 DU

Matrix: Water

Analysis Batch: 56520

Client Sample ID: GW066-204

Prep Type: Total Recoverable

Prep Batch: 55955

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Manganese	5.0	U	0.0050	U	mg/L		NC	20
Potassium	2.0		1.95		mg/L		2	20
Sodium	21	J1	21.3		mg/L		0.8	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-55716/1-A

Matrix: Water

Analysis Batch: 56298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55716

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 20:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 20:55	1

Lab Sample ID: LCS 410-55716/2-A

Matrix: Water

Analysis Batch: 56298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0589		mg/L		98	84 - 116
Lead	0.0300	0.0303		mg/L		101	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-56962/66

Matrix: Water

Analysis Batch: 56962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1

Lab Sample ID: LCS 410-56962/67

Matrix: Water

Analysis Batch: 56962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-63338/53

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 12:16	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 410-63338/54

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.64		mg/L	-	106	90 - 110

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

GC/MS VOA

Analysis Batch: 59890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total/NA	Water	8260C DOD	
410-17563-2	SWB204-01	Total/NA	Water	8260C DOD	
410-17563-3	SWB204-02	Total/NA	Water	8260C DOD	
410-17563-4	TB204-52	Total/NA	Water	8260C DOD	
MB 410-59890/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-59890/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-59890/7	Lab Control Sample	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 58081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total/NA	Water	8011	
410-17563-2	SWB204-01	Total/NA	Water	8011	
410-17563-3	SWB204-02	Total/NA	Water	8011	
410-17563-4	TB204-52	Total/NA	Water	8011	
MB 410-58081/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58081/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58081/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 58622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total/NA	Water	8011	58081
410-17563-2	SWB204-01	Total/NA	Water	8011	58081
410-17563-3	SWB204-02	Total/NA	Water	8011	58081
410-17563-4	TB204-52	Total/NA	Water	8011	58081
MB 410-58081/1-A	Method Blank	Total/NA	Water	8011	58081
LCS 410-58081/2-A	Lab Control Sample	Total/NA	Water	8011	58081
LCSD 410-58081/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58081

HPLC/IC

Analysis Batch: 56222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56222/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56222/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 55716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total/NA	Water	3020A	
410-17563-2	SWB204-01	Total/NA	Water	3020A	
410-17563-3	SWB204-02	Total/NA	Water	3020A	
MB 410-55716/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-55716/2-A	Lab Control Sample	Total/NA	Water	3020A	

Prep Batch: 55843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Dissolved	Water	Non-Digest Prep	
MB 410-55843/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Metals (Continued)

Prep Batch: 55843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-55843/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 55955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total Recoverable	Water	3005A	
410-17563-2	SWB204-01	Total Recoverable	Water	3005A	
410-17563-3	SWB204-02	Total Recoverable	Water	3005A	
MB 410-55955/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-55955/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-17563-1 MS	GW066-204	Total Recoverable	Water	3005A	
410-17563-1 MSD	GW066-204	Total Recoverable	Water	3005A	
410-17563-1 DU	GW066-204	Total Recoverable	Water	3005A	

Analysis Batch: 56298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total/NA	Water	6020A	55716
410-17563-2	SWB204-01	Total/NA	Water	6020A	55716
410-17563-3	SWB204-02	Total/NA	Water	6020A	55716
MB 410-55716/1-A	Method Blank	Total/NA	Water	6020A	55716
LCS 410-55716/2-A	Lab Control Sample	Total/NA	Water	6020A	55716

Analysis Batch: 56520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total Recoverable	Water	6010C	55955
410-17563-2	SWB204-01	Total Recoverable	Water	6010C	55955
410-17563-3	SWB204-02	Total Recoverable	Water	6010C	55955
MB 410-55955/1-A	Method Blank	Total Recoverable	Water	6010C	55955
LCS 410-55955/2-A	Lab Control Sample	Total Recoverable	Water	6010C	55955
410-17563-1 MS	GW066-204	Total Recoverable	Water	6010C	55955
410-17563-1 MSD	GW066-204	Total Recoverable	Water	6010C	55955
410-17563-1 DU	GW066-204	Total Recoverable	Water	6010C	55955

Analysis Batch: 56592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Dissolved	Water	6010C	55843
MB 410-55843/1-A	Method Blank	Total/NA	Water	6010C	55843
LCS 410-55843/2-A	Lab Control Sample	Total/NA	Water	6010C	55843

General Chemistry

Analysis Batch: 56962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total/NA	Water	2320B-2011	
MB 410-56962/66	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-56962/67	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 63338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17563-1	GW066-204	Total/NA	Water	353.2	
MB 410-63338/53	Method Blank	Total/NA	Water	353.2	
LCS 410-63338/54	Lab Control Sample	Total/NA	Water	353.2	

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Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: GW066-204

Date Collected: 10/16/20 12:39

Date Received: 10/17/20 09:47

Lab Sample ID: 410-17563-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 18:28	K4WN	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 16:18	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56222	10/21/20 07:59	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55843	10/19/20 09:27	UAMX	ELLE
Dissolved	Analysis	6010C		1	56592	10/20/20 20:17	UCIG	ELLE
Total Recoverable	Prep	3005A			55955	10/19/20 15:03	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56520	10/20/20 16:51	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:41	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 05:02	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:40	KGQ6	ELLE

Client Sample ID: SWB204-01

Date Collected: 10/15/20 12:45

Date Received: 10/17/20 09:47

Lab Sample ID: 410-17563-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 18:50	K4WN	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 16:35	AC3T	ELLE
Total Recoverable	Prep	3005A			55955	10/19/20 15:03	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56520	10/20/20 17:13	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:47	V5SW	ELLE

Client Sample ID: SWB204-02

Date Collected: 10/15/20 13:00

Date Received: 10/17/20 09:47

Lab Sample ID: 410-17563-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 19:12	K4WN	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 17:25	AC3T	ELLE
Total Recoverable	Prep	3005A			55955	10/19/20 15:03	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	56520	10/20/20 17:22	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:49	V5SW	ELLE

Client Sample ID: TB204-52

Date Collected: 10/16/20 12:00

Date Received: 10/17/20 09:47

Lab Sample ID: 410-17563-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 12:34	K4WN	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Client Sample ID: TB204-52

Lab Sample ID: 410-17563-4

Date Collected: 10/16/20 12:00

Matrix: Water

Date Received: 10/17/20 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 17:42	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17563-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-17563-1	GW066-204	Water	10/16/20 12:39	10/17/20 09:47	
410-17563-2	SWB204-01	Water	10/15/20 12:45	10/17/20 09:47	
410-17563-3	SWB204-02	Water	10/15/20 13:00	10/17/20 09:47	
410-17563-4	TB204-52	Water	10/16/20 12:00	10/17/20 09:47	

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410-17563 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-066-204						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020								
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)										
ANALYSIS REQUIRED (Specify number of bottles)																				
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS				
1	GW066-204	10-16-2020	1239	10	3	—	2	1	1*	1	1	1	1							
2																				
3																				
4																				
5																				
6																				
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																				
SAMPLER(S): R. Wittler										COURIER AND SHIPPING NUMBER: FedEx 7718 2124 2699										
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:			DATE		TIME	
Printed Name and Signature: R. Wittler										10-16-2020		1500		Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature: Tatiana mari Rivera			10/17/20		947	

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225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER		
												COC-SWB204-01		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020		
				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA								QUARTER: 4		
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258						
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (226C)	BTEX (226C)	BTEXN (226C)	EDB (2011)	Total As, Pb, Cu, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate, and Bicarbonate) (354.2)	COMMENTS
1	SWB204-01	10/15/2020	1245	6	3	—	2	1						
2														
3														
4														
5														
Please add Fe and Mn to total metals analysis.														
Associated with: ESS lab grade water														
SAMPLER(S): J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7718 2124 2699 TB204-52										
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME			
Printed Name and Signature: J Livingston John Z				10/15/2020	1500	Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature: Tatiana mari Rivera				10/17/20	947			

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225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER		
												COC-SWB204-02		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4		
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 558-7258						
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	EDX (8260C)	Total As, Pb, Cd, K, Na, Mg (8011)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS
1	SWB204-02	10/15/2020	1300	6	3	—	2	1						
2														
3														
4														
5														
Please add Fe and Mn to total metals analysis.														
Associated with: ESS lab grade water ¹⁶ CRYSTAL SPRINGS DI WATER														
SAMPLER(S): J Livingston								COURIER AND SHIPPING NUMBER: FEDEX 7718 ^{2124 2694} 1018 6140 TB204-52						
RELINQUISHED BY:								RECEIVED BY:						
DATE TIME				DATE TIME				DATE TIME						
Printed Name and Signature: J Livingston <i>John Livingston</i>				Printed Name and Signature: <i>Tatiana Marie R...</i>				Printed Name and Signature:						
Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:						
Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:						
Printed Name and Signature:				Printed Name and Signature:				Printed Name and Signature:						

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 564-7000
Fax No: (410) 771-1625

PROJECT NAME:
**Kirtland AFB Bulk Fuels
Facility**

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

LAB PO NUMBER: 21295

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND
PHASE: ST106/SS111

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-TB204-52

YEAR: 2020

QUARTER: 4

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total As, Pb, Cu, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204-52	10/16/2020	1200	4	2		2								
2															
3															
4															
5															

Associated with:
GW066-204
SWB204-01
SWB204-02

SAMPLER(S): J Livingston

RELINQUISHED BY: DATE TIME

Printed Name and Signature: J Livingston 20/10/2020 1500

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

COURIER AND SHIPPING NUMBER: FedEx 7718 2124 2699

RECEIVED BY: DATE TIME

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature: Tatiana mari Rivera 10/17/20 947

THUR

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

Page 36 of 37

F-2-1223

11/11/2020
March 2021

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-17563-1

Login Number: 17563**List Number: 1****Creator: Rivera, Tatiana****List Source: Eurofins Lancaster Laboratories Env**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-17565-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/11/2020 4:03:10 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Darlene Bandy

Project Manager I

11/11/2020 4:03:10 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Job ID: 410-17565-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17565-1

Receipt

The samples were received on 10/17/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.1° C.

GC/MS VOA

Method 8260C DOD: The response for 2-Butanone, 2-Hexanone, Acetone, Acrolein, and Acrylonitrile in the continuing calibration verification (CCV) marginally exceeds, low-biased, the DoD acceptance criteria on batch 410-59890. Due to the marginal nature of the outlier(s), the data is reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW068-204 (410-17565-1), GW069-204 (410-17565-2) and TB204-51 (410-17565-3). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The response for Hexachlorobutadiene in the initial calibration verification associated with batch 410-59890 marginally exceeds the DoD acceptance criteria. Due to the marginal nature of the outlier(s), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 353.2: The reference method requires samples to be preserved to a pH of <2. The following sample(s) were received with insufficient preservation at a pH of 5: GW069-204 (410-17565-2). The sample(s) were preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: GW068-204

Lab Sample ID: 410-17565-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.21	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	7.9	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	28	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	34		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.7		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.0		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.25		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW069-204

Lab Sample ID: 410-17565-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,1,2,2-Tetrachloroethane	11		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
1,2,3-Trichloropropane	4.1	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
1,2-Dibromoethane	0.35	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
1,2-Dichloroethane	2.6		1.0	0.50	0.30	ug/L	1		8260C DOD	Total/NA
Acetone	11	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Benzene	0.60	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Dibromomethane	0.41	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Isopropylbenzene	34		5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Methyl tertiary butyl ether	0.55	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Methylene Chloride	0.86	J	1.0	0.50	0.30	ug/L	1		8260C DOD	Total/NA
n-Butylbenzene	0.45	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
N-Propylbenzene	1.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
p-Isopropyltoluene	2.8	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	4.7	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
tert-Butylbenzene	4.9	J	5.0	1.0	0.30	ug/L	1		8260C DOD	Total/NA
Toluene	0.64	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	42	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	29	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	58		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	8.3		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	27		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	0.096	J	0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	0.35		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: GW069-204 (Continued)

Lab Sample ID: 410-17565-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	150		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	150		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-51

Lab Sample ID: 410-17565-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: GW068-204

Lab Sample ID: 410-17565-1

Date Collected: 10/16/20 11:11

Matrix: Water

Date Received: 10/17/20 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:34	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 19:34	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:34	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:34	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:34	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:34	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:34	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 19:34	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 19:34	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 19:34	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 19:34	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 19:34	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 19:34	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 19:34	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:34	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Chloromethane	0.21	J	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 19:34	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 19:34	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: GW068-204

Lab Sample ID: 410-17565-1

Date Collected: 10/16/20 11:11

Matrix: Water

Date Received: 10/17/20 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:34	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:34	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:34	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 19:34	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:34	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:34	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 19:34	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:34	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/29/20 19:34	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/29/20 19:34	1
Dibromofluoromethane (Surr)	102		80 - 119		10/29/20 19:34	1
Toluene-d8 (Surr)	97		89 - 112		10/29/20 19:34	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/25/20 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	65		46 - 136	10/24/20 06:40	10/25/20 17:59	1
1,1,2,2-Tetrachloroethane (2C)	64		46 - 136	10/24/20 06:40	10/25/20 17:59	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/21/20 08:33	5
Chloride	7.9	D	2.0	1.5	1.0	mg/L		10/21/20 08:33	5
Sulfate	28	D	5.0	4.5	1.5	mg/L		10/21/20 08:33	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	34		0.20	0.15	0.096	mg/L		10/20/20 21:04	1
Magnesium	4.7		0.10	0.075	0.040	mg/L		10/20/20 21:04	1
Potassium	2.0		0.50	0.38	0.20	mg/L		10/20/20 21:04	1
Sodium	22		1.0	0.50	0.24	mg/L		10/20/20 21:04	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 20:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: GW068-204

Lab Sample ID: 410-17565-1

Date Collected: 10/16/20 11:11

Matrix: Water

Date Received: 10/17/20 09:45

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 20:13	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L		10/19/20 21:45	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:45	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/21/20 04:55	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 04:55	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/21/20 04:55	1
Nitrate Nitrite as N	0.25		0.10	0.090	0.040	mg/L		11/07/20 14:41	1

Client Sample ID: GW069-204

Lab Sample ID: 410-17565-2

Date Collected: 10/16/20 09:11

Matrix: Water

Date Received: 10/17/20 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:56	1
1,1,2,2-Tetrachloroethane	11		1.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,1,2-Trichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,1-Dichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 19:56	1
1,2,3-Trichloropropane	4.1	J	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:56	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 19:56	1
1,2-Dibromoethane	0.35	J	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,2-Dichloroethane	2.6		1.0	0.50	0.30	ug/L		10/29/20 19:56	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,3,5-Trimethylbenzene	1.0	U M	5.0	1.0	0.30	ug/L		10/29/20 19:56	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:56	1
2-Butanone	1.0	U Q M	10	1.0	0.30	ug/L		10/29/20 19:56	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
2-Hexanone	1.0	U Q M	10	1.0	0.30	ug/L		10/29/20 19:56	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/29/20 19:56	1
Acetone	11	J Q	20	2.0	0.70	ug/L		10/29/20 19:56	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 19:56	1
Acrylonitrile	1.0	U Q M	20	1.0	0.30	ug/L		10/29/20 19:56	1
Benzene	0.60	J	1.0	0.50	0.20	ug/L		10/29/20 19:56	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: GW069-204

Lab Sample ID: 410-17565-2

Date Collected: 10/16/20 09:11

Matrix: Water

Date Received: 10/17/20 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 19:56	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 19:56	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Chloroform	0.50	U M	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Dibromomethane	0.41	J	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Ethylbenzene	0.80	U M	1.0	0.80	0.40	ug/L		10/29/20 19:56	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 19:56	1
Isopropylbenzene	34		5.0	0.50	0.20	ug/L		10/29/20 19:56	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:56	1
Methyl tertiary butyl ether	0.55	J	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Methylene Chloride	0.86	J	1.0	0.50	0.30	ug/L		10/29/20 19:56	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 19:56	1
n-Butylbenzene	0.45	J	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
N-Propylbenzene	1.4	J	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 19:56	1
p-Isopropyltoluene	2.8	J	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
sec-Butylbenzene	4.7	J	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 19:56	1
tert-Butylbenzene	4.9	J	5.0	1.0	0.30	ug/L		10/29/20 19:56	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Toluene	0.64	J	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 19:56	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 19:56	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/29/20 19:56	1
4-Bromofluorobenzene (Surr)	101		85 - 114		10/29/20 19:56	1
Dibromofluoromethane (Surr)	102		80 - 119		10/29/20 19:56	1
Toluene-d8 (Surr)	96		89 - 112		10/29/20 19:56	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U M J1	0.026	0.019	0.026	ug/L		10/25/20 18:15	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: GW069-204

Lab Sample ID: 410-17565-2

Date Collected: 10/16/20 09:11

Matrix: Water

Date Received: 10/17/20 09:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	70	M	46 - 136	10/24/20 06:40	10/25/20 18:15	1
1,1,2,2-Tetrachloroethane (2C)	82	M	46 - 136	10/24/20 06:40	10/25/20 18:15	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.5	J D	2.5	2.0	1.3	mg/L		10/21/20 09:07	5
Chloride	42	D	20	15	10	mg/L		10/21/20 09:24	50
Sulfate	29	D	5.0	4.5	1.5	mg/L		10/21/20 09:07	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	58		0.20	0.15	0.096	mg/L		10/20/20 21:01	1
Magnesium	8.3		0.10	0.075	0.040	mg/L		10/20/20 21:01	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/20/20 21:01	1
Sodium	27		1.0	0.50	0.24	mg/L		10/20/20 21:01	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.096	J	0.21	0.10	0.041	mg/L		10/20/20 20:04	1
Manganese	0.35		0.010	0.0052	0.0031	mg/L		10/20/20 20:04	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00075	J	0.0020	0.0016	0.00068	mg/L		10/19/20 21:43	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 21:43	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	150		8.0	6.0	8.0	mg/L		10/21/20 04:39	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 04:39	1
Total Alkalinity as CaCO ₃ to pH 4.5	150		8.0	6.0	8.0	mg/L		10/21/20 04:39	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 14:42	1

Client Sample ID: TB204-51

Lab Sample ID: 410-17565-3

Date Collected: 10/16/20 12:00

Matrix: Water

Date Received: 10/17/20 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:56	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 12:56	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 12:56	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 12:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 12:56	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: TB204-51

Lab Sample ID: 410-17565-3

Date Collected: 10/16/20 12:00

Matrix: Water

Date Received: 10/17/20 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		10/29/20 12:56	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 12:56	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:56	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 12:56	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 12:56	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 12:56	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 12:56	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 12:56	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 12:56	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 12:56	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:56	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 12:56	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 12:56	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 12:56	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 12:56	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 12:56	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 12:56	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 12:56	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 12:56	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: TB204-51

Lab Sample ID: 410-17565-3

Date Collected: 10/16/20 12:00

Matrix: Water

Date Received: 10/17/20 09:45

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 12:56	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 12:56	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/29/20 12:56	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 12:56	1
Dibromofluoromethane (Surr)	100		80 - 119		10/29/20 12:56	1
Toluene-d8 (Surr)	99		89 - 112		10/29/20 12:56	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/25/20 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136	10/24/20 06:40	10/25/20 18:32	1
1,1,2,2-Tetrachloroethane (2C)	70		46 - 136	10/24/20 06:40	10/25/20 18:32	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-17565-1	GW068-204	104	95	102	97
410-17565-2	GW069-204	102	101	102	96
410-17565-3	TB204-51	100	96	100	99
LCS 410-59890/5	Lab Control Sample	99	99	100	99
LCS 410-59890/7	Lab Control Sample	101	97	99	100
MB 410-59890/10	Method Blank	99	96	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-17565-1	GW068-204	65	64
410-17565-2	GW069-204	70 M	82 M
410-17565-3	TB204-51	74	70
LCS 410-58081/2-A	Lab Control Sample	70	67
LCSD 410-58081/3-A	Lab Control Sample Dup	81	80
MB 410-58081/1-A	Method Blank	67	68

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-59890/10

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 11:32	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/29/20 11:32	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/29/20 11:32	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 11:32	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/29/20 11:32	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/29/20 11:32	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/29/20 11:32	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 11:32	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 11:32	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/29/20 11:32	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-59890/10

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 11:32	1
p-Isopropyltoluene	2.41	J M	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
sec-Butylbenzene	2.25	J	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 11:32	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/29/20 11:32	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 11:32	1
Dibromofluoromethane (Surr)	99		80 - 119		10/29/20 11:32	1
Toluene-d8 (Surr)	99		89 - 112		10/29/20 11:32	1

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.9		ug/L		95	78 - 124
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	20.0	17.6		ug/L		88	71 - 121
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 119
1,1-Dichloroethane	20.0	18.7		ug/L		94	77 - 125
1,1-Dichloroethene	20.0	19.4		ug/L		97	71 - 131
1,1-Dichloropropene	20.0	18.8		ug/L		94	79 - 125
1,2,3-Trichlorobenzene	20.0	18.3		ug/L		91	69 - 129
1,2,3-Trichloropropane	20.0	18.2		ug/L		91	73 - 122
1,2,4-Trichlorobenzene	20.0	18.7		ug/L		93	69 - 130
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		94	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/L		88	62 - 128
1,2-Dibromoethane	20.0	18.6		ug/L		93	77 - 121
1,2-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 119
1,2-Dichloroethane	20.0	18.5		ug/L		93	73 - 128

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	18.8		ug/L		94	78 - 122
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	75 - 124
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 119
1,3-Dichloropropane	20.0	18.3		ug/L		92	80 - 119
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	79 - 118
2,2-Dichloropropane	20.0	19.9		ug/L		100	60 - 139
2-Butanone	150	165		ug/L		110	56 - 143
2-Chlorotoluene	20.0	18.8		ug/L		94	79 - 122
2-Hexanone	100	100		ug/L		100	57 - 139
4-Chlorotoluene	20.0	18.9		ug/L		94	78 - 122
4-Methyl-2-pentanone	100	88.9		ug/L		89	67 - 130
Acetone	150	236		ug/L		157	39 - 160
Acrolein	150	126		ug/L		84	39 - 155
Acrylonitrile	100	84.3		ug/L		84	63 - 135
Benzene	20.0	18.7		ug/L		94	42 - 138
Bromobenzene	20.0	18.9		ug/L		95	80 - 120
Bromochloromethane	20.0	18.0		ug/L		90	78 - 123
Bromodichloromethane	20.0	18.8		ug/L		94	79 - 125
Bromoform	20.0	19.2		ug/L		96	66 - 130
Bromomethane	20.0	17.4		ug/L		87	53 - 141
Carbon disulfide	20.0	18.8		ug/L		94	64 - 133
Carbon tetrachloride	20.0	19.3		ug/L		96	72 - 136
Chlorobenzene	20.0	19.3		ug/L		97	82 - 118
Chloroethane	20.0	16.7		ug/L		83	60 - 138
Chloroform	20.0	19.0		ug/L		95	79 - 124
Chloromethane	20.0	16.1		ug/L		80	50 - 139
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	78 - 123
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	75 - 124
Dibromochloromethane	20.0	20.4		ug/L		102	74 - 126
Dibromomethane	20.0	18.9		ug/L		95	79 - 123
Dichlorodifluoromethane	20.0	15.2		ug/L		76	32 - 152
Ethylbenzene	20.0	19.4		ug/L		97	79 - 121
Hexachlorobutadiene	20.0	18.8		ug/L		94	66 - 134
Isopropylbenzene	20.0	19.9		ug/L		100	72 - 131
m&p-Xylene	40.0	39.4		ug/L		99	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	18.9		ug/L		94	74 - 124
Naphthalene	20.0	18.6		ug/L		93	61 - 128
n-Butylbenzene	20.0	18.5		ug/L		92	75 - 128
N-Propylbenzene	20.0	19.2		ug/L		96	76 - 126
o-Xylene	20.0	19.6		ug/L		98	78 - 122
p-Isopropyltoluene	20.0	19.4		ug/L		97	77 - 127
sec-Butylbenzene	20.0	19.2		ug/L		96	77 - 126
Styrene	20.0	19.6		ug/L		98	78 - 123
tert-Butylbenzene	20.0	20.9		ug/L		104	78 - 124
Tetrachloroethene	20.0	20.9		ug/L		105	74 - 129
Toluene	20.0	19.0		ug/L		95	80 - 121
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	75 - 124
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.1		ug/L		96	79 - 123
Trichlorofluoromethane	20.0	17.5	M	ug/L		87	65 - 141
Vinyl chloride	20.0	17.7		ug/L		88	58 - 137
Xylenes, Total	60.0	59.0		ug/L		98	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-59890/7

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	101		ug/L		101	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-58081/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58081

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 18:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	67		46 - 136	10/24/20 06:40	10/24/20 18:16	1
1,1,2,2-Tetrachloroethane (2C)	68		46 - 136	10/24/20 06:40	10/24/20 18:16	1

Lab Sample ID: LCS 410-58081/2-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.118		ug/L		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	70		46 - 136
1,1,2,2-Tetrachloroethane (2C)	67		46 - 136

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-58081/3-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.130		ug/L		101	60 - 140	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	80		46 - 136						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-56222/4

Matrix: Water

Analysis Batch: 56222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/21/20 01:27	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/21/20 01:27	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/21/20 01:27	1

Lab Sample ID: LCS 410-56222/3

Matrix: Water

Analysis Batch: 56222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.46		mg/L		99	90 - 110
Chloride	3.00	2.98		mg/L		99	90 - 110
Sulfate	7.50	7.60		mg/L		101	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-55843/1-A

Matrix: Water

Analysis Batch: 56592

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55843

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/20/20 19:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/20/20 19:36	1

Lab Sample ID: LCS 410-55843/2-A

Matrix: Water

Analysis Batch: 56592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.389		mg/L		97	87 - 115
Manganese	0.0200	0.0207		mg/L		104	90 - 114

Lab Sample ID: MB 410-54654/1-A

Matrix: Water

Analysis Batch: 56599

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 54654

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/20/20 19:26	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-54654/1-A

Matrix: Water

Analysis Batch: 56599

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 54654

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/20/20 19:26	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/20/20 19:26	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/20/20 19:26	1

Lab Sample ID: LCS 410-54654/2-A

Matrix: Water

Analysis Batch: 56599

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 54654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.416		mg/L		104	87 - 113
Magnesium	0.200	0.193		mg/L		96	85 - 113
Potassium	5.60	5.60		mg/L		100	86 - 114
Sodium	2.00	2.11		mg/L		105	87 - 115

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-55716/1-A

Matrix: Water

Analysis Batch: 56298

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55716

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/19/20 20:55	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/19/20 20:55	1

Lab Sample ID: LCS 410-55716/2-A

Matrix: Water

Analysis Batch: 56298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0589		mg/L		98	84 - 116
Lead	0.0300	0.0303		mg/L		101	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-56962/66

Matrix: Water

Analysis Batch: 56962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/21/20 02:35	1

Lab Sample ID: LCS 410-56962/67

Matrix: Water

Analysis Batch: 56962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-63338/53

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 12:16	1

Lab Sample ID: LCS 410-63338/54

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.64		mg/L		106	90 - 110

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

GC/MS VOA

Analysis Batch: 59890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total/NA	Water	8260C DOD	
410-17565-2	GW069-204	Total/NA	Water	8260C DOD	
410-17565-3	TB204-51	Total/NA	Water	8260C DOD	
MB 410-59890/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-59890/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-59890/7	Lab Control Sample	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 58081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total/NA	Water	8011	
410-17565-2	GW069-204	Total/NA	Water	8011	
410-17565-3	TB204-51	Total/NA	Water	8011	
MB 410-58081/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58081/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58081/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 58622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total/NA	Water	8011	58081
410-17565-2	GW069-204	Total/NA	Water	8011	58081
410-17565-3	TB204-51	Total/NA	Water	8011	58081
MB 410-58081/1-A	Method Blank	Total/NA	Water	8011	58081
LCS 410-58081/2-A	Lab Control Sample	Total/NA	Water	8011	58081
LCSD 410-58081/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58081

HPLC/IC

Analysis Batch: 56222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total/NA	Water	EPA 300.0 R2.1	
410-17565-2	GW069-204	Total/NA	Water	EPA 300.0 R2.1	
410-17565-2	GW069-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56222/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56222/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 54654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total Recoverable	Water	3005A	
410-17565-2	GW069-204	Total Recoverable	Water	3005A	
MB 410-54654/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-54654/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 55716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total/NA	Water	3020A	
410-17565-2	GW069-204	Total/NA	Water	3020A	
MB 410-55716/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-55716/2-A	Lab Control Sample	Total/NA	Water	3020A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Metals

Prep Batch: 55843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Dissolved	Water	Non-Digest Prep	
410-17565-2	GW069-204	Dissolved	Water	Non-Digest Prep	
MB 410-55843/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-55843/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 56298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total/NA	Water	6020A	55716
410-17565-2	GW069-204	Total/NA	Water	6020A	55716
MB 410-55716/1-A	Method Blank	Total/NA	Water	6020A	55716
LCS 410-55716/2-A	Lab Control Sample	Total/NA	Water	6020A	55716

Analysis Batch: 56592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Dissolved	Water	6010C	55843
410-17565-2	GW069-204	Dissolved	Water	6010C	55843
MB 410-55843/1-A	Method Blank	Total/NA	Water	6010C	55843
LCS 410-55843/2-A	Lab Control Sample	Total/NA	Water	6010C	55843

Analysis Batch: 56599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total Recoverable	Water	6010C	54654
410-17565-2	GW069-204	Total Recoverable	Water	6010C	54654
MB 410-54654/1-A	Method Blank	Total Recoverable	Water	6010C	54654
LCS 410-54654/2-A	Lab Control Sample	Total Recoverable	Water	6010C	54654

General Chemistry

Analysis Batch: 56962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total/NA	Water	2320B-2011	
410-17565-2	GW069-204	Total/NA	Water	2320B-2011	
MB 410-56962/66	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-56962/67	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 63338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17565-1	GW068-204	Total/NA	Water	353.2	
410-17565-2	GW069-204	Total/NA	Water	353.2	
MB 410-63338/53	Method Blank	Total/NA	Water	353.2	
LCS 410-63338/54	Lab Control Sample	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Client Sample ID: GW068-204

Date Collected: 10/16/20 11:11

Date Received: 10/17/20 09:45

Lab Sample ID: 410-17565-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 19:34	K4WN	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 17:59	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56222	10/21/20 08:33	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55843	10/19/20 09:27	UAMX	ELLE
Dissolved	Analysis	6010C		1	56592	10/20/20 20:13	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/19/20 03:51	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 21:04	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:45	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 04:55	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:41	KGQ6	ELLE

Client Sample ID: GW069-204

Date Collected: 10/16/20 09:11

Date Received: 10/17/20 09:45

Lab Sample ID: 410-17565-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 19:56	K4WN	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 18:15	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56222	10/21/20 09:07	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	56222	10/21/20 09:24	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			55843	10/19/20 09:27	UAMX	ELLE
Dissolved	Analysis	6010C		1	56592	10/20/20 20:04	UCIG	ELLE
Total Recoverable	Prep	3005A			54654	10/19/20 03:51	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	56599	10/20/20 21:01	UCIG	ELLE
Total/NA	Prep	3020A			55716	10/19/20 02:29	UJL8	ELLE
Total/NA	Analysis	6020A		1	56298	10/19/20 21:43	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	56962	10/21/20 04:39	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 14:42	KGQ6	ELLE

Client Sample ID: TB204-51

Date Collected: 10/16/20 12:00

Date Received: 10/17/20 09:45

Lab Sample ID: 410-17565-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 12:56	K4WN	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 18:32	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17565-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-17565-1	GW068-204	Water	10/16/20 11:11	10/17/20 09:45	
410-17565-2	GW069-204	Water	10/16/20 09:11	10/17/20 09:45	
410-17565-3	TB204-51	Water	10/16/20 12:00	10/17/20 09:45	

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410-17565 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-068-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	Comments	
1	GW068-204	10-16-2020	1111	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): R. Witter				COURIER AND SHIPPING NUMBER: FedEx 7718 2124 2688											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: R. Witter				10-16-2020		1500		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Zane Hollinger				10/17/20		9:45	

JR

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EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No (410) 594-7000 Fax No (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-069-204		
PROJECT NAME Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER 029999M04 AR 6360401		LABORATORY NAME AND CONTACT Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE ST106/SS111				Lab PO Number: 14988-AR 21295				LAB CONTACT Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
					(8260C) VOCs	(8260C) BTEX	(8260C) EDB	(8011) Total (As, Pb, Cd, Ni, Mg)	Dissolved Fe, Mn (6020A/6010C)	(6010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(333.2) Alkalinity (Total, Carbonate, and Bicarbonate)	(SM4230B) Carbon Dioxide	(MSK-175) Methane		(MSK-175)
1	GW069-204	10-16-2020	0911	10	3		2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk <i>[Signature]</i> DATE: 10-16-2020 TIME: 1500 COURIER AND SHIPPING NUMBER: FedEx 7718 2124 2688 TB204-51 RECEIVED BY: <i>[Signature]</i> DATE: 10/17/20 TIME: 9:45																

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-51

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Ca, K, Na, Mg (6020A/610C) COC	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)				
1	TB204-51	10/16/2020	1200	4	2				2								
2																	
3																	
4																	
5	JRL																

Associated with:
GW068-204
GW069-204

SAMPLER(S): J Livingston

COURIER AND SHIPPING NUMBER: FedEx 7718 2124 2688

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
J Livingston	10/16/2020	1500			
			Zane Holliger	10/17/20	9:45

JR

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-17565-1

Login Number: 17565**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Rivera-Santa, Julissa**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-17749-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/17/2020 9:46:43 AM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy

Project Manager I

11/17/2020 9:46:43 AM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Job ID: 410-17749-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17749-1

Receipt

The samples were received on 10/20/2020 11:13 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.3° C.

GC/MS VOA

Method 8260C DOD: The response for 2-Butanone, 2-Hexanone, Acetone, Acrolein, and Acrylonitrile in the continuing calibration verification (CCV) marginally exceeds, low-biased, the DoD acceptance criteria on batch 410-59890. Due to the marginal nature of the outlier(s), the data is reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: TB204-53 (410-17749-4). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The response for Hexachlorobutadiene in the initial calibration verification associated with batch 410-60597 marginally exceeds the DoD acceptance criteria. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW017-204 (410-17749-1), GW017-604 (410-17749-2) and GW094-204 (410-17749-3). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The response for Hexachlorobutadiene in the initial calibration verification associated with batch 410-59890 marginally exceeds the DoD acceptance criteria. Due to the marginal nature of the outlier(s), the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW017-204

Lab Sample ID: 410-17749-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.30	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
1,2-Dichloroethane	1.9		1.0	0.50	0.30	ug/L	1			8260C DOD	Total/NA
Acetone	7.5	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Benzene	0.70	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Isopropylbenzene	14		5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Methylene Chloride	0.43	J M	1.0	0.50	0.30	ug/L	1			8260C DOD	Total/NA
N-Propylbenzene	0.62	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	3.5	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
tert-Butylbenzene	4.8	J	5.0	1.0	0.30	ug/L	1			8260C DOD	Total/NA
Tetrachloroethene	0.37	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.15	M	0.029	0.019	0.0096	ug/L	1			8011	Total/NA
Chloride	17	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	38	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	52		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	7.4		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	26		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Iron	0.071	J	0.21	0.10	0.041	mg/L	1			6010C	Total
Manganese	0.19		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.0011	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	140		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	140		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: GW017-604

Lab Sample ID: 410-17749-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,1-Dichloroethane	0.31	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
1,2-Dichloroethane	2.0		1.0	0.50	0.30	ug/L	1			8260C DOD	Total/NA
Acetone	6.2	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Benzene	0.74	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Isopropylbenzene	16		5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Methylene Chloride	0.44	J M	1.0	0.50	0.30	ug/L	1			8260C DOD	Total/NA
N-Propylbenzene	0.40	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	3.6	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
tert-Butylbenzene	4.8	J	5.0	1.0	0.30	ug/L	1			8260C DOD	Total/NA
Tetrachloroethene	0.36	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.15	M	0.029	0.019	0.0095	ug/L	1			8011	Total/NA
Chloride	16	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	38	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	51		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	7.3		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
Potassium	2.5		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	26		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
Iron	0.088	J	0.21	0.10	0.041	mg/L	1			6010C	Total

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW017-604 (Continued)

Lab Sample ID: 410-17749-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.19		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.00095	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	140		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	140		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW094-204

Lab Sample ID: 410-17749-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.54	J M	1.0	0.50	0.30	ug/L	1		8260C DOD	Total/NA
Acetone	2.4	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Benzene	0.48	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Isopropylbenzene	0.66	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	3.0	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.071	M	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	62	D	8.0	6.0	4.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Sulfate	37	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	90		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	14		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.3		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	33		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	0.87		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	2.0		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	210		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	210		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-53

Lab Sample ID: 410-17749-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW017-204

Lab Sample ID: 410-17749-1

Date Collected: 10/19/20 08:58

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 00:30	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,1,2-Trichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,1-Dichloroethane	0.30	J	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/31/20 00:30	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 00:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 00:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 00:30	1
1,2-Dibromoethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,2-Dichloroethane	1.9		1.0	0.50	0.30	ug/L		10/31/20 00:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 00:30	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 00:30	1
2-Butanone	1.0	U M	10	1.0	0.30	ug/L		10/31/20 00:30	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		10/31/20 00:30	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/31/20 00:30	1
Acetone	7.5	J	20	2.0	0.70	ug/L		10/31/20 00:30	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/31/20 00:30	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/31/20 00:30	1
Benzene	0.70	J	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/31/20 00:30	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 00:30	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Dichlorodifluoromethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Ethylbenzene	0.80	U M	1.0	0.80	0.40	ug/L		10/31/20 00:30	1
Hexachlorobutadiene	4.0	U Q M	5.0	4.0	2.0	ug/L		10/31/20 00:30	1
Isopropylbenzene	14		5.0	0.50	0.20	ug/L		10/31/20 00:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW017-204

Lab Sample ID: 410-17749-1

Date Collected: 10/19/20 08:58

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 00:30	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Methylene Chloride	0.43	J M	1.0	0.50	0.30	ug/L		10/31/20 00:30	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 00:30	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
N-Propylbenzene	0.62	J	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/31/20 00:30	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
sec-Butylbenzene	3.5	J	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:30	1
tert-Butylbenzene	4.8	J	5.0	1.0	0.30	ug/L		10/31/20 00:30	1
Tetrachloroethene	0.37	J	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/31/20 00:30	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:30	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/31/20 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/31/20 00:30	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/31/20 00:30	1
Dibromofluoromethane (Surr)	102		80 - 119		10/31/20 00:30	1
Toluene-d8 (Surr)	96		89 - 112		10/31/20 00:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.15	M	0.029	0.019	0.0096	ug/L		10/25/20 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	95	M	46 - 136	10/24/20 06:40	10/25/20 18:49	1
1,1,2,2-Tetrachloroethane (2C)	76		46 - 136	10/24/20 06:40	10/25/20 18:49	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/22/20 07:39	5
Chloride	17	D	2.0	1.5	1.0	mg/L		10/22/20 07:39	5
Sulfate	38	D	5.0	4.5	1.5	mg/L		10/22/20 07:39	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	52		0.20	0.15	0.096	mg/L		10/25/20 07:19	1
Magnesium	7.4		0.10	0.075	0.040	mg/L		10/25/20 07:19	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/27/20 08:00	1
Sodium	26		1.0	0.50	0.24	mg/L		10/25/20 07:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.071	J	0.21	0.10	0.041	mg/L		10/21/20 12:02	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW017-204

Lab Sample ID: 410-17749-1

Date Collected: 10/19/20 08:58

Matrix: Water

Date Received: 10/20/20 11:13

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.19		0.010	0.0052	0.0031	mg/L		10/21/20 12:02	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0011	J	0.0020	0.0016	0.00068	mg/L		10/22/20 22:18	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/22/20 22:18	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	140		8.0	6.0	2.6	mg/L		10/23/20 05:56	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 05:56	1
Total Alkalinity as CaCO ₃ to pH 4.5	140		8.0	6.0	2.6	mg/L		10/23/20 05:56	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 15:17	1

Client Sample ID: GW017-604

Lab Sample ID: 410-17749-2

Date Collected: 10/19/20 08:58

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 01:14	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,1,2-Trichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,1-Dichloroethane	0.31	J	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/31/20 01:14	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 01:14	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 01:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 01:14	1
1,2-Dibromoethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,2-Dichloroethane	2.0		1.0	0.50	0.30	ug/L		10/31/20 01:14	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 01:14	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 01:14	1
2-Butanone	1.0	U M	10	1.0	0.30	ug/L		10/31/20 01:14	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		10/31/20 01:14	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/31/20 01:14	1
Acetone	6.2	J	20	2.0	0.70	ug/L		10/31/20 01:14	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/31/20 01:14	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/31/20 01:14	1
Benzene	0.74	J	1.0	0.50	0.20	ug/L		10/31/20 01:14	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW017-604

Lab Sample ID: 410-17749-2

Date Collected: 10/19/20 08:58

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/31/20 01:14	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 01:14	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Dichlorodifluoromethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/31/20 01:14	1
Hexachlorobutadiene	4.0	U Q M	5.0	4.0	2.0	ug/L		10/31/20 01:14	1
Isopropylbenzene	16		5.0	0.50	0.20	ug/L		10/31/20 01:14	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 01:14	1
Methyl tertiary butyl ether	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Methylene Chloride	0.44	J M	1.0	0.50	0.30	ug/L		10/31/20 01:14	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 01:14	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
N-Propylbenzene	0.40	J	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/31/20 01:14	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
sec-Butylbenzene	3.6	J	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:14	1
tert-Butylbenzene	4.8	J	5.0	1.0	0.30	ug/L		10/31/20 01:14	1
Tetrachloroethene	0.36	J	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/31/20 01:14	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:14	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/31/20 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/31/20 01:14	1
4-Bromofluorobenzene (Surr)	101		85 - 114		10/31/20 01:14	1
Dibromofluoromethane (Surr)	101		80 - 119		10/31/20 01:14	1
Toluene-d8 (Surr)	97		89 - 112		10/31/20 01:14	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.15	M	0.029	0.019	0.0095	ug/L		10/26/20 20:20	1

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Client Sample Results

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Job ID: 410-17749-1

Client Sample ID: GW017-604

Lab Sample ID: 410-17749-2

Date Collected: 10/19/20 08:58

Matrix: Water

Date Received: 10/20/20 11:13

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	71	M	46 - 136	10/24/20 05:20	10/26/20 20:20	1
1,1,2,2-Tetrachloroethane (2C)	66		46 - 136	10/24/20 05:20	10/26/20 20:20	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/22/20 08:15	5
Chloride	16	D	2.0	1.5	1.0	mg/L		10/22/20 08:15	5
Sulfate	38	D	5.0	4.5	1.5	mg/L		10/22/20 08:15	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	51		0.20	0.15	0.096	mg/L		10/25/20 07:22	1
Magnesium	7.3		0.10	0.075	0.040	mg/L		10/25/20 07:22	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/27/20 08:03	1
Sodium	26		1.0	0.50	0.24	mg/L		10/25/20 07:22	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.088	J	0.21	0.10	0.041	mg/L		10/21/20 12:15	1
Manganese	0.19		0.010	0.0052	0.0031	mg/L		10/21/20 12:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00095	J	0.0020	0.0016	0.00068	mg/L		10/22/20 22:16	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/22/20 22:16	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	140		8.0	6.0	2.6	mg/L		10/23/20 03:22	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 03:22	1
Total Alkalinity as CaCO ₃ to pH 4.5	140		8.0	6.0	2.6	mg/L		10/23/20 03:22	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 15:18	1

Client Sample ID: GW094-204

Lab Sample ID: 410-17749-3

Date Collected: 10/19/20 12:11

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 01:58	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,1,2-Trichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/31/20 01:58	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 01:58	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 01:58	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 01:58	1
1,2-Dibromoethane	0.50	U M	1.0	0.50	0.20	ug/L		10/31/20 01:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

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Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW094-204

Lab Sample ID: 410-17749-3

Date Collected: 10/19/20 12:11

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,2-Dichloroethane	0.54	J M	1.0	0.50	0.30	ug/L		10/31/20 01:58	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 01:58	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 01:58	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/31/20 01:58	1
2-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		10/31/20 01:58	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		10/31/20 01:58	1
Acetone	2.4	J	20	2.0	0.70	ug/L		10/31/20 01:58	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/31/20 01:58	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/31/20 01:58	1
Benzene	0.48	J	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/31/20 01:58	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 01:58	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/31/20 01:58	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/31/20 01:58	1
Isopropylbenzene	0.66	J	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 01:58	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Methylene Chloride	0.50	U M	1.0	0.50	0.30	ug/L		10/31/20 01:58	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 01:58	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/31/20 01:58	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
sec-Butylbenzene	3.0	J	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 01:58	1
tert-Butylbenzene	1.0	U M	5.0	1.0	0.30	ug/L		10/31/20 01:58	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW094-204

Lab Sample ID: 410-17749-3

Date Collected: 10/19/20 12:11

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/31/20 01:58	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 01:58	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/31/20 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/31/20 01:58	1
4-Bromofluorobenzene (Surr)	100		85 - 114		10/31/20 01:58	1
Dibromofluoromethane (Surr)	100		80 - 119		10/31/20 01:58	1
Toluene-d8 (Surr)	97		89 - 112		10/31/20 01:58	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.071	M	0.029	0.019	0.0096	ug/L		10/26/20 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	72	M	46 - 136	10/24/20 05:20	10/26/20 20:54	1
1,1,2,2-Tetrachloroethane (2C)	77	M	46 - 136	10/24/20 05:20	10/26/20 20:54	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/22/20 08:51	5
Chloride	62	D	8.0	6.0	4.0	mg/L		10/22/20 09:45	20
Sulfate	37	D	5.0	4.5	1.5	mg/L		10/22/20 08:51	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	90		0.20	0.15	0.096	mg/L		10/25/20 07:34	1
Magnesium	14		0.10	0.075	0.040	mg/L		10/25/20 07:34	1
Potassium	3.3		0.50	0.38	0.20	mg/L		10/27/20 08:07	1
Sodium	33		1.0	0.50	0.24	mg/L		10/27/20 08:07	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.87		0.21	0.10	0.041	mg/L		10/21/20 12:12	1
Manganese	2.0		0.010	0.0052	0.0031	mg/L		10/21/20 12:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/22/20 22:07	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/22/20 22:07	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	210		8.0	6.0	2.6	mg/L		10/23/20 03:06	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 03:06	1
Total Alkalinity as CaCO3 to pH 4.5	210		8.0	6.0	2.6	mg/L		10/23/20 03:06	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 15:19	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: TB204-53

Lab Sample ID: 410-17749-4

Date Collected: 10/19/20 14:30

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:18	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 13:18	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 13:18	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 13:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 13:18	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:18	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 13:18	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:18	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 13:18	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		10/29/20 13:18	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 13:18	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		10/29/20 13:18	1
Acrolein	5.0	U Q	100	5.0	3.0	ug/L		10/29/20 13:18	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		10/29/20 13:18	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 13:18	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:18	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 13:18	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/29/20 13:18	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: TB204-53

Lab Sample ID: 410-17749-4

Date Collected: 10/19/20 14:30

Matrix: Water

Date Received: 10/20/20 11:13

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 13:18	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 13:18	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 13:18	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 13:18	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 13:18	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 13:18	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 13:18	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 13:18	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		10/29/20 13:18	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/29/20 13:18	1
Dibromofluoromethane (Surr)	100		80 - 119		10/29/20 13:18	1
Toluene-d8 (Surr)	98		89 - 112		10/29/20 13:18	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0097	ug/L		10/26/20 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	73		46 - 136	10/24/20 05:20	10/26/20 21:28	1
1,1,2,2-Tetrachloroethane (2C)	70		46 - 136	10/24/20 05:20	10/26/20 21:28	1

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Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-17749-1	GW017-204	101	100	102	96
410-17749-2	GW017-604	101	101	101	97
410-17749-3	GW094-204	101	100	100	97
410-17749-4	TB204-53	100	95	100	98
LCS 410-59890/5	Lab Control Sample	99	99	100	99
LCS 410-59890/7	Lab Control Sample	101	97	99	100
LCS 410-60597/5	Lab Control Sample	100	98	101	99
LCS 410-60597/6	Lab Control Sample	100	95	100	99
MB 410-59890/10	Method Blank	99	96	99	99
MB 410-60597/8	Method Blank	103	95	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-17749-1	GW017-204	95 M	76
410-17749-2	GW017-604	71 M	66
410-17749-3	GW094-204	72 M	77 M
410-17749-4	TB204-53	73	70
LCS 410-58072/2-A	Lab Control Sample	75	74
LCS 410-58081/2-A	Lab Control Sample	70	67
LCSD 410-58072/3-A	Lab Control Sample Dup	76	74
LCSD 410-58081/3-A	Lab Control Sample Dup	81	80
MB 410-58072/1-A	Method Blank	74	74
MB 410-58081/1-A	Method Blank	67	68

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-59890/10

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/29/20 11:32	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/29/20 11:32	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/29/20 11:32	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/29/20 11:32	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/29/20 11:32	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/29/20 11:32	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/29/20 11:32	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/29/20 11:32	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 11:32	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/29/20 11:32	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-59890/10

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/29/20 11:32	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/29/20 11:32	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/29/20 11:32	1
p-Isopropyltoluene	2.41	J M	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
sec-Butylbenzene	2.25	J	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/29/20 11:32	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/29/20 11:32	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/29/20 11:32	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/29/20 11:32	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/29/20 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/29/20 11:32	1
4-Bromofluorobenzene (Surr)	96		85 - 114		10/29/20 11:32	1
Dibromofluoromethane (Surr)	99		80 - 119		10/29/20 11:32	1
Toluene-d8 (Surr)	99		89 - 112		10/29/20 11:32	1

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.9		ug/L		95	78 - 124
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	74 - 131
1,1,2,2-Tetrachloroethane	20.0	17.6		ug/L		88	71 - 121
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	80 - 119
1,1-Dichloroethane	20.0	18.7		ug/L		94	77 - 125
1,1-Dichloroethene	20.0	19.4		ug/L		97	71 - 131
1,1-Dichloropropene	20.0	18.8		ug/L		94	79 - 125
1,2,3-Trichlorobenzene	20.0	18.3		ug/L		91	69 - 129
1,2,3-Trichloropropane	20.0	18.2		ug/L		91	73 - 122
1,2,4-Trichlorobenzene	20.0	18.7		ug/L		93	69 - 130
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		94	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/L		88	62 - 128
1,2-Dibromoethane	20.0	18.6		ug/L		93	77 - 121
1,2-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 119
1,2-Dichloroethane	20.0	18.5		ug/L		93	73 - 128

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	18.8		ug/L		94	78 - 122
1,3,5-Trimethylbenzene	20.0	19.2		ug/L		96	75 - 124
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 119
1,3-Dichloropropane	20.0	18.3		ug/L		92	80 - 119
1,4-Dichlorobenzene	20.0	19.0		ug/L		95	79 - 118
2,2-Dichloropropane	20.0	19.9		ug/L		100	60 - 139
2-Butanone	150	165		ug/L		110	56 - 143
2-Chlorotoluene	20.0	18.8		ug/L		94	79 - 122
2-Hexanone	100	100		ug/L		100	57 - 139
4-Chlorotoluene	20.0	18.9		ug/L		94	78 - 122
4-Methyl-2-pentanone	100	88.9		ug/L		89	67 - 130
Acetone	150	236		ug/L		157	39 - 160
Acrolein	150	126		ug/L		84	39 - 155
Acrylonitrile	100	84.3		ug/L		84	63 - 135
Benzene	20.0	18.7		ug/L		94	42 - 138
Bromobenzene	20.0	18.9		ug/L		95	80 - 120
Bromochloromethane	20.0	18.0		ug/L		90	78 - 123
Bromodichloromethane	20.0	18.8		ug/L		94	79 - 125
Bromoform	20.0	19.2		ug/L		96	66 - 130
Bromomethane	20.0	17.4		ug/L		87	53 - 141
Carbon disulfide	20.0	18.8		ug/L		94	64 - 133
Carbon tetrachloride	20.0	19.3		ug/L		96	72 - 136
Chlorobenzene	20.0	19.3		ug/L		97	82 - 118
Chloroethane	20.0	16.7		ug/L		83	60 - 138
Chloroform	20.0	19.0		ug/L		95	79 - 124
Chloromethane	20.0	16.1		ug/L		80	50 - 139
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	78 - 123
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	75 - 124
Dibromochloromethane	20.0	20.4		ug/L		102	74 - 126
Dibromomethane	20.0	18.9		ug/L		95	79 - 123
Dichlorodifluoromethane	20.0	15.2		ug/L		76	32 - 152
Ethylbenzene	20.0	19.4		ug/L		97	79 - 121
Hexachlorobutadiene	20.0	18.8		ug/L		94	66 - 134
Isopropylbenzene	20.0	19.9		ug/L		100	72 - 131
m&p-Xylene	40.0	39.4		ug/L		99	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	18.9		ug/L		94	74 - 124
Naphthalene	20.0	18.6		ug/L		93	61 - 128
n-Butylbenzene	20.0	18.5		ug/L		92	75 - 128
N-Propylbenzene	20.0	19.2		ug/L		96	76 - 126
o-Xylene	20.0	19.6		ug/L		98	78 - 122
p-Isopropyltoluene	20.0	19.4		ug/L		97	77 - 127
sec-Butylbenzene	20.0	19.2		ug/L		96	77 - 126
Styrene	20.0	19.6		ug/L		98	78 - 123
tert-Butylbenzene	20.0	20.9		ug/L		104	78 - 124
Tetrachloroethene	20.0	20.9		ug/L		105	74 - 129
Toluene	20.0	19.0		ug/L		95	80 - 121
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	75 - 124
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-59890/5

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.1		ug/L		96	79 - 123
Trichlorofluoromethane	20.0	17.5	M	ug/L		87	65 - 141
Vinyl chloride	20.0	17.7		ug/L		88	58 - 137
Xylenes, Total	60.0	59.0		ug/L		98	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-59890/7

Matrix: Water

Analysis Batch: 59890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	101		ug/L		101	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: MB 410-60597/8

Matrix: Water

Analysis Batch: 60597

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 00:03	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/31/20 00:03	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 00:03	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 00:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 00:03	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 00:03	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 00:03	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-60597/8

Matrix: Water

Analysis Batch: 60597

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 00:03	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/31/20 00:03	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/31/20 00:03	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/31/20 00:03	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/31/20 00:03	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/31/20 00:03	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/31/20 00:03	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/31/20 00:03	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 00:03	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/31/20 00:03	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		10/31/20 00:03	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 00:03	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/31/20 00:03	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/31/20 00:03	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/31/20 00:03	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
sec-Butylbenzene	0.50	U M	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/31/20 00:03	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/31/20 00:03	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/31/20 00:03	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/31/20 00:03	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-60597/8

Matrix: Water

Analysis Batch: 60597

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/31/20 00:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		10/31/20 00:03	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/31/20 00:03	1
Dibromofluoromethane (Surr)	101		80 - 119		10/31/20 00:03	1
Toluene-d8 (Surr)	98		89 - 112		10/31/20 00:03	1

Lab Sample ID: LCS 410-60597/5

Matrix: Water

Analysis Batch: 60597

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.0		ug/L		100	78 - 124
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	74 - 131
1,1,2,2-Tetrachloroethane	20.0	18.5		ug/L		93	71 - 121
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	80 - 119
1,1-Dichloroethane	20.0	19.0		ug/L		95	77 - 125
1,1-Dichloroethene	20.0	20.1		ug/L		100	71 - 131
1,1-Dichloropropene	20.0	19.5		ug/L		97	79 - 125
1,2,3-Trichlorobenzene	20.0	19.6		ug/L		98	69 - 129
1,2,3-Trichloropropane	20.0	19.3		ug/L		96	73 - 122
1,2,4-Trichlorobenzene	20.0	19.4		ug/L		97	69 - 130
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.4		ug/L		97	62 - 128
1,2-Dibromoethane	20.0	19.2		ug/L		96	77 - 121
1,2-Dichlorobenzene	20.0	19.7		ug/L		99	80 - 119
1,2-Dichloroethane	20.0	19.1		ug/L		96	73 - 128
1,2-Dichloropropane	20.0	18.8		ug/L		94	78 - 122
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		99	75 - 124
1,3-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 119
1,3-Dichloropropane	20.0	18.4		ug/L		92	80 - 119
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	79 - 118
2,2-Dichloropropane	20.0	20.6		ug/L		103	60 - 139
2-Butanone	150	133		ug/L		88	56 - 143
2-Chlorotoluene	20.0	19.7		ug/L		98	79 - 122
2-Hexanone	100	90.2		ug/L		90	57 - 139
4-Chlorotoluene	20.0	20.0		ug/L		100	78 - 122
4-Methyl-2-pentanone	100	90.9		ug/L		91	67 - 130
Acetone	150	132		ug/L		88	39 - 160
Acrolein	150	111		ug/L		74	39 - 155
Acrylonitrile	100	87.5		ug/L		87	63 - 135
Benzene	20.0	18.9		ug/L		95	42 - 138
Bromobenzene	20.0	19.9		ug/L		100	80 - 120
Bromochloromethane	20.0	18.5		ug/L		93	78 - 123
Bromodichloromethane	20.0	19.1		ug/L		95	79 - 125
Bromoform	20.0	19.4		ug/L		97	66 - 130
Bromomethane	20.0	16.6		ug/L		83	53 - 141

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-60597/5

Matrix: Water

Analysis Batch: 60597

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	18.8		ug/L		94	64 - 133
Carbon tetrachloride	20.0	20.6		ug/L		103	72 - 136
Chlorobenzene	20.0	20.1		ug/L		100	82 - 118
Chloroethane	20.0	16.0		ug/L		80	60 - 138
Chloroform	20.0	19.4		ug/L		97	79 - 124
Chloromethane	20.0	14.4		ug/L		72	50 - 139
cis-1,2-Dichloroethene	20.0	20.5		ug/L		102	78 - 123
cis-1,3-Dichloropropene	20.0	18.7		ug/L		94	75 - 124
Dibromochloromethane	20.0	20.7		ug/L		103	74 - 126
Dibromomethane	20.0	19.1		ug/L		95	79 - 123
Dichlorodifluoromethane	20.0	14.6	M	ug/L		73	32 - 152
Ethylbenzene	20.0	19.9		ug/L		100	79 - 121
Hexachlorobutadiene	20.0	19.8		ug/L		99	66 - 134
Isopropylbenzene	20.0	20.5		ug/L		102	72 - 131
m&p-Xylene	40.0	40.4		ug/L		101	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	18.8		ug/L		94	74 - 124
Naphthalene	20.0	19.7		ug/L		99	61 - 128
n-Butylbenzene	20.0	19.2		ug/L		96	75 - 128
N-Propylbenzene	20.0	19.9		ug/L		100	76 - 126
o-Xylene	20.0	20.0		ug/L		100	78 - 122
p-Isopropyltoluene	20.0	20.1		ug/L		101	77 - 127
sec-Butylbenzene	20.0	20.0		ug/L		100	77 - 126
Styrene	20.0	20.0		ug/L		100	78 - 123
tert-Butylbenzene	20.0	20.4		ug/L		102	78 - 124
Tetrachloroethene	20.0	20.3		ug/L		101	74 - 129
Toluene	20.0	19.3		ug/L		96	80 - 121
trans-1,2-Dichloroethene	20.0	20.1		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	18.5		ug/L		93	73 - 127
Trichloroethene	20.0	19.5		ug/L		98	79 - 123
Trichlorofluoromethane	20.0	17.8		ug/L		89	65 - 141
Vinyl chloride	20.0	16.0		ug/L		80	58 - 137
Xylenes, Total	60.0	60.4		ug/L		101	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	98		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-60597/6

Matrix: Water

Analysis Batch: 60597

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	95.7		ug/L		96	54 - 146

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-60597/6

Matrix: Water

Analysis Batch: 60597

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-58072/1-A

Matrix: Water

Analysis Batch: 58616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58072

Analysis Data: 00019										
Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac	
	Result	Qualifier								
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 19:10	1	
Surrogate	MB	MB	Limits					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier								
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136					10/24/20 05:20	10/24/20 19:10	1
1,1,2,2-Tetrachloroethane (2C)	74		46 - 136					10/24/20 05:20	10/24/20 19:10	1

Lab Sample ID: LCS 410-58072/2-A

Matrix: Water

Analysis Batch: 58616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.128		ug/L		100	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	74		46 - 136				

Lab Sample ID: LCSD 410-58072/3-A

Matrix: Water

Analysis Batch: 58616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58072

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.128	0.126		ug/L		98	60 - 140	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	76		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	74		46 - 136						

Lab Sample ID: MB 410-58081/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58081

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 18:16	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 410-58081/1-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58081

Surrogate	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	67		46 - 136	10/24/20 06:40	10/24/20 18:16	1
1,1,2,2-Tetrachloroethane (2C)	68		46 - 136	10/24/20 06:40	10/24/20 18:16	1

Lab Sample ID: LCS 410-58081/2-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.118		ug/L		92	60 - 140
Surrogate	LCS %Recovery	Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)	70		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	67		46 - 136				

Lab Sample ID: LCSD 410-58081/3-A

Matrix: Water

Analysis Batch: 58622

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58081

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.128	0.130		ug/L		101	60 - 140	10	20
Surrogate	LCSD %Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	80		46 - 136						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-56964/4

Matrix: Water

Analysis Batch: 56964

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/22/20 02:50	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/22/20 02:50	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/22/20 02:50	1

Lab Sample ID: LCS 410-56964/3

Matrix: Water

Analysis Batch: 56964

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	8.01		mg/L		107	90 - 110
Chloride	3.00	3.23		mg/L		108	90 - 110
Sulfate	7.50	7.85		mg/L		105	90 - 110

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-56476/1-A

Matrix: Water

Analysis Batch: 56928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56476

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/21/20 11:22	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/21/20 11:22	1

Lab Sample ID: LCS 410-56476/2-A

Matrix: Water

Analysis Batch: 56928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.418		mg/L		104	87 - 115
Manganese	0.0200	0.0210		mg/L		105	90 - 114

Lab Sample ID: MB 410-56529/1-A

Matrix: Water

Analysis Batch: 58235

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 56529

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/25/20 06:54	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/25/20 06:54	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/25/20 06:54	1

Lab Sample ID: MB 410-56529/1-A

Matrix: Water

Analysis Batch: 58539

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 56529

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	0.38	U Q	0.50	0.38	0.20	mg/L		10/26/20 11:03	1

Lab Sample ID: LCS 410-56529/2-A

Matrix: Water

Analysis Batch: 58235

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 56529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.418		mg/L		104	87 - 113
Magnesium	0.200	0.217		mg/L		108	85 - 113
Sodium	2.00	2.03		mg/L		101	87 - 115

Lab Sample ID: LCS 410-56529/2-A

Matrix: Water

Analysis Batch: 58905

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 56529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.60		mg/L		100	86 - 114

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-56531/1-A

Matrix: Water

Analysis Batch: 57761

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 56531

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/22/20 21:32	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/22/20 21:32	1

Lab Sample ID: LCS 410-56531/2-A

Matrix: Water

Analysis Batch: 57761

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 56531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0570		mg/L		95	84 - 116
Lead	0.0300	0.0296		mg/L		99	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-57954/63

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 00:10	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 00:10	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 00:10	1

Lab Sample ID: MB 410-57954/95

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 03:28	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 03:28	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		10/23/20 03:28	1

Lab Sample ID: LCS 410-57954/64

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106

Lab Sample ID: LCS 410-57954/96

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCSD 410-57954/65

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106	1	10

Lab Sample ID: LCSD 410-57954/97

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-63338/102

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 14:52	1

Lab Sample ID: LCS 410-63338/103

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	2.50	2.36		mg/L		94	90 - 110		

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

GC/MS VOA

Analysis Batch: 59890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-4	TB204-53	Total/NA	Water	8260C DOD	
MB 410-59890/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-59890/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-59890/7	Lab Control Sample	Total/NA	Water	8260C DOD	

Analysis Batch: 60597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total/NA	Water	8260C DOD	
410-17749-2	GW017-604	Total/NA	Water	8260C DOD	
410-17749-3	GW094-204	Total/NA	Water	8260C DOD	
MB 410-60597/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-60597/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-60597/6	Lab Control Sample	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 58072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-2	GW017-604	Total/NA	Water	8011	
410-17749-3	GW094-204	Total/NA	Water	8011	
410-17749-4	TB204-53	Total/NA	Water	8011	
MB 410-58072/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58072/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58072/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Prep Batch: 58081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total/NA	Water	8011	
MB 410-58081/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58081/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58081/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 58616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-58072/1-A	Method Blank	Total/NA	Water	8011	58072
LCS 410-58072/2-A	Lab Control Sample	Total/NA	Water	8011	58072
LCSD 410-58072/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58072

Analysis Batch: 58622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total/NA	Water	8011	58081
MB 410-58081/1-A	Method Blank	Total/NA	Water	8011	58081
LCS 410-58081/2-A	Lab Control Sample	Total/NA	Water	8011	58081
LCSD 410-58081/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58081

Analysis Batch: 58698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-2	GW017-604	Total/NA	Water	8011	58072
410-17749-3	GW094-204	Total/NA	Water	8011	58072
410-17749-4	TB204-53	Total/NA	Water	8011	58072

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

HPLC/IC

Analysis Batch: 56964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total/NA	Water	EPA 300.0 R2.1	
410-17749-2	GW017-604	Total/NA	Water	EPA 300.0 R2.1	
410-17749-3	GW094-204	Total/NA	Water	EPA 300.0 R2.1	
410-17749-3	GW094-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-56964/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-56964/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 56476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Dissolved	Water	Non-Digest Prep	
410-17749-2	GW017-604	Dissolved	Water	Non-Digest Prep	
410-17749-3	GW094-204	Dissolved	Water	Non-Digest Prep	
MB 410-56476/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-56476/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 56529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total Recoverable	Water	3005A	
410-17749-2	GW017-604	Total Recoverable	Water	3005A	
410-17749-3	GW094-204	Total Recoverable	Water	3005A	
MB 410-56529/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-56529/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 56531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total/NA	Water	3005A	
410-17749-2	GW017-604	Total/NA	Water	3005A	
410-17749-3	GW094-204	Total/NA	Water	3005A	
MB 410-56531/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-56531/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 56928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Dissolved	Water	6010C	56476
410-17749-2	GW017-604	Dissolved	Water	6010C	56476
410-17749-3	GW094-204	Dissolved	Water	6010C	56476
MB 410-56476/1-A	Method Blank	Total/NA	Water	6010C	56476
LCS 410-56476/2-A	Lab Control Sample	Total/NA	Water	6010C	56476

Analysis Batch: 57761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total/NA	Water	6020A	56531
410-17749-2	GW017-604	Total/NA	Water	6020A	56531
410-17749-3	GW094-204	Total/NA	Water	6020A	56531
MB 410-56531/1-A	Method Blank	Total Recoverable	Water	6020A	56531
LCS 410-56531/2-A	Lab Control Sample	Total Recoverable	Water	6020A	56531

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Metals

Analysis Batch: 58235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total Recoverable	Water	6010C	56529
410-17749-2	GW017-604	Total Recoverable	Water	6010C	56529
410-17749-3	GW094-204	Total Recoverable	Water	6010C	56529
MB 410-56529/1-A	Method Blank	Total Recoverable	Water	6010C	56529
LCS 410-56529/2-A	Lab Control Sample	Total Recoverable	Water	6010C	56529

Analysis Batch: 58539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-56529/1-A	Method Blank	Total Recoverable	Water	6010C	56529

Analysis Batch: 58905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total Recoverable	Water	6010C	56529
410-17749-2	GW017-604	Total Recoverable	Water	6010C	56529
410-17749-3	GW094-204	Total Recoverable	Water	6010C	56529
LCS 410-56529/2-A	Lab Control Sample	Total Recoverable	Water	6010C	56529

General Chemistry

Analysis Batch: 57954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total/NA	Water	2320B-2011	
410-17749-2	GW017-604	Total/NA	Water	2320B-2011	
410-17749-3	GW094-204	Total/NA	Water	2320B-2011	
MB 410-57954/63	Method Blank	Total/NA	Water	2320B-2011	
MB 410-57954/95	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-57954/64	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-57954/96	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-57954/65	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
LCSD 410-57954/97	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 63338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17749-1	GW017-204	Total/NA	Water	353.2	
410-17749-2	GW017-604	Total/NA	Water	353.2	
410-17749-3	GW094-204	Total/NA	Water	353.2	
MB 410-63338/102	Method Blank	Total/NA	Water	353.2	
LCS 410-63338/103	Lab Control Sample	Total/NA	Water	353.2	

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Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW017-204

Lab Sample ID: 410-17749-1

Date Collected: 10/19/20 08:58

Matrix: Water

Date Received: 10/20/20 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60597	10/31/20 00:30	MJ8R	ELLE
Total/NA	Prep	8011			58081	10/24/20 06:40	UKQ8	ELLE
Total/NA	Analysis	8011		1	58622	10/25/20 18:49	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56964	10/22/20 07:39	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			56476	10/20/20 16:34	UJLA	ELLE
Dissolved	Analysis	6010C		1	56928	10/21/20 12:02	UPJE	ELLE
Total Recoverable	Prep	3005A			56529	10/20/20 18:39	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	58235	10/25/20 07:19	UCIG	ELLE
Total Recoverable	Prep	3005A			56529	10/20/20 18:39	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	58905	10/27/20 08:00	MDP5	ELLE
Total/NA	Prep	3005A			56531	10/20/20 18:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	57761	10/22/20 22:18	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/23/20 05:56	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:17	KGQ6	ELLE

Client Sample ID: GW017-604

Lab Sample ID: 410-17749-2

Date Collected: 10/19/20 08:58

Matrix: Water

Date Received: 10/20/20 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60597	10/31/20 01:14	MJ8R	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 20:20	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56964	10/22/20 08:15	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			56476	10/20/20 16:34	UJLA	ELLE
Dissolved	Analysis	6010C		1	56928	10/21/20 12:15	UPJE	ELLE
Total Recoverable	Prep	3005A			56529	10/20/20 18:39	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	58235	10/25/20 07:22	UCIG	ELLE
Total Recoverable	Prep	3005A			56529	10/20/20 18:39	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	58905	10/27/20 08:03	MDP5	ELLE
Total/NA	Prep	3005A			56531	10/20/20 18:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	57761	10/22/20 22:16	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/23/20 03:22	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:18	KGQ6	ELLE

Client Sample ID: GW094-204

Lab Sample ID: 410-17749-3

Date Collected: 10/19/20 12:11

Matrix: Water

Date Received: 10/20/20 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60597	10/31/20 01:58	MJ8R	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 20:54	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	56964	10/22/20 08:51	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Client Sample ID: GW094-204

Lab Sample ID: 410-17749-3

Date Collected: 10/19/20 12:11

Matrix: Water

Date Received: 10/20/20 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		20	56964	10/22/20 09:45	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			56476	10/20/20 16:34	UJLA	ELLE
Dissolved	Analysis	6010C		1	56928	10/21/20 12:12	UPJE	ELLE
Total Recoverable	Prep	3005A			56529	10/20/20 18:39	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	58235	10/25/20 07:34	UCIG	ELLE
Total Recoverable	Prep	3005A			56529	10/20/20 18:39	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	58905	10/27/20 08:07	MDP5	ELLE
Total/NA	Prep	3005A			56531	10/20/20 18:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	57761	10/22/20 22:07	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/23/20 03:06	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:19	KGQ6	ELLE

Client Sample ID: TB204-53

Lab Sample ID: 410-17749-4

Date Collected: 10/19/20 14:30

Matrix: Water

Date Received: 10/20/20 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	59890	10/29/20 13:18	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 21:28	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17749-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-17749-1	GW017-204	Water	10/19/20 08:58	10/20/20 11:13	
410-17749-2	GW017-604	Water	10/19/20 08:58	10/20/20 11:13	
410-17749-3	GW094-204	Water	10/19/20 12:11	10/20/20 11:13	
410-17749-4	TB204-53	Water	10/19/20 14:30	10/20/20 11:13	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-017-204

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

Lab PO Number: 21295

PROJECT SITE AND PHASE:
ST106/SS111

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *D. Schmeelk*

COURIER AND SHIPPING NUMBER: **FedEx 7718 3754 2777**

RELINQUISHED BY: DATE: 10-19-2020 TIME: 1530

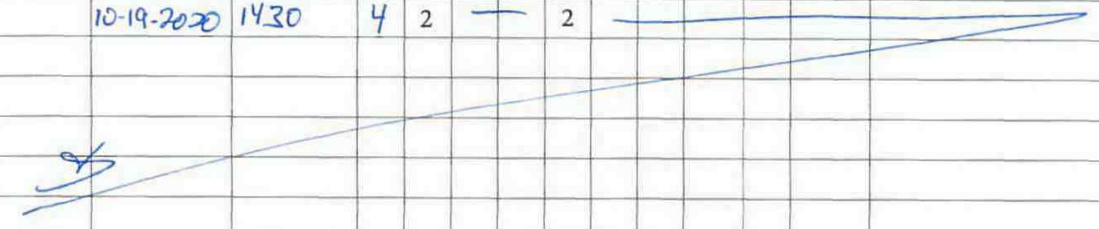
RECEIVED BY: DATE: 10/20/21 TIME: 1113

Printed Name and Signature: *D. Schmeelk*

Printed Name and Signature: *Nicole Rust*

TR

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-094-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7259								QUARTER: 4 (Oct-Dec)	
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Comments	
1	GW094-204	10-19-2020	1211	10	3	1	2	1	1*	1	1	1			
2															
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6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>D. Schmeelke</i>										COURIER AND SHIPPING NUMBER: FedEx 7718 3754 2777					
RELINQUISHED BY: <i>D. Schmeelke</i>										RECEIVED BY: <i>Nicole Rutter</i>					
DATE: 10-19-2020 TIME: 1530										DATE: 10/20/20 TIME: 1113					

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-53	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As Pb, Ca, K, Na, Mg (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (300.0)	(353.2)	Alkalinity (SM2320B) (Total, Carbonate, and Bicarbonate)	COMMENTS	
1	TB204-53	10-19-2020	1430	4	2	—	2	—	—	—	—	—	—		
2															
3															
4															
5															
Associated with: GW017-204 GW017-604 GW094-204															
SAMPLER(S): D. Schueck				COURIER AND SHIPPING NUMBER: FedEx 77183758 7718 3754 2777											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: D. Schueck				10-19-2020	1530	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Ruff				10/20/20	1113				

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-17749-1

Login Number: 17749**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Rivera-Santa, Julissa**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-17853-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/13/2020 2:49:01 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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The
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www.eurofinsus.com/Env

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
11/13/2020 2:49:01 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Job ID: 410-17853-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-17853-1

Receipt

The samples were received on 10/21/2020 10:25 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8° C and 0.9° C.

GC/MS VOA

Method 8260C DOD: The response for Hexachlorobutadiene in the initial calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-60246. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid to pH <2 on analytical batch 410-60246 : TB204-55 (410-17853-1), GW046-204 (410-17853-2), GW047-204 (410-17853-3), GW062-204 (410-17853-4), TB204-54 (410-17853-5), GW067-204 (410-17853-6), GW065-204 (410-17853-7) and GW078-204 (410-17853-8). The requested target analyte list includes Acrolein and Acrylonitrile. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: GW067-204 (410-17853-6). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: TB204-55

Lab Sample ID: 410-17853-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA

Client Sample ID: GW046-204

Lab Sample ID: 410-17853-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.36	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Isopropylbenzene	0.20	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	2.3	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Chloride	11	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	27	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	43		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	6.0		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	26		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.0014	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	150		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	150		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.10		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW047-204

Lab Sample ID: 410-17853-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.36	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Chloride	11	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	32	D M	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	37		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.0		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.2		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.55		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW062-204

Lab Sample ID: 410-17853-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	7.8	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	29	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW062-204 (Continued)

Lab Sample ID: 410-17853-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Calcium	32		0.20	0.15	0.096	mg/L	1		6010C	Total
										Recoverable
Magnesium	4.4		0.10	0.075	0.040	mg/L	1		6010C	Total
										Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total
										Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1		6010C	Total
										Recoverable
Arsenic	0.0014	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.099	J	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: TB204-54

Lab Sample ID: 410-17853-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

Client Sample ID: GW067-204

Lab Sample ID: 410-17853-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,1,2,2-Tetrachloroethane	25	D	2.0	1.0	0.40	ug/L	2		8260C DOD	Total/NA
1,2,3-Trichloropropane	11	D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
1,2-Dichloroethane	5.0	D	2.0	1.0	0.60	ug/L	2		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	8.7	J D	10	2.0	0.60	ug/L	2		8260C DOD	Total/NA
2-Chlorotoluene	0.89	J D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
4-Chlorotoluene	0.41	J D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
Acetone	11	J D	40	4.0	1.4	ug/L	2		8260C DOD	Total/NA
Benzene	3.3	D	2.0	1.0	0.40	ug/L	2		8260C DOD	Total/NA
Isopropylbenzene	97	D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
Methylene Chloride	1.3	J D	2.0	1.0	0.60	ug/L	2		8260C DOD	Total/NA
N-Propylbenzene	1.2	J D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
o-Xylene	1.3	J D	2.0	1.6	0.80	ug/L	2		8260C DOD	Total/NA
p-Isopropyltoluene	20	D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
sec-Butylbenzene	8.8	J D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
tert-Butylbenzene	10	D	10	2.0	0.60	ug/L	2		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.017	J M	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	27	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	5.7	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	100		0.20	0.15	0.096	mg/L	1		6010C	Total
										Recoverable
Magnesium	15		0.10	0.075	0.040	mg/L	1		6010C	Total
										Recoverable
Potassium	3.6		0.50	0.38	0.20	mg/L	1		6010C	Total
										Recoverable
Sodium	41		1.0	0.50	0.24	mg/L	1		6010C	Total
										Recoverable
Iron	1.5		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	3.3	J1	0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.000083	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW067-204 (Continued)

Lab Sample ID: 410-17853-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	370		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	370		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW065-204

Lab Sample ID: 410-17853-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloride	20	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	35	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	57		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	9.1		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.8		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	31		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	190		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	190		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW078-204

Lab Sample ID: 410-17853-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.7	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	28	D M	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	30		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	4.2		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	21		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00094		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: TB204-55

Lab Sample ID: 410-17853-1

Date Collected: 10/20/20 14:00

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 12:43	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/30/20 12:43	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 12:43	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 12:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 12:43	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 12:43	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 12:43	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 12:43	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 12:43	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 12:43	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/30/20 12:43	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/30/20 12:43	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/30/20 12:43	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/30/20 12:43	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/30/20 12:43	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 12:43	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 12:43	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/30/20 12:43	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: TB204-55

Lab Sample ID: 410-17853-1

Date Collected: 10/20/20 14:00

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 12:43	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 12:43	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 12:43	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 12:43	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
sec-Butylbenzene	2.2	J	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 12:43	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 12:43	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/30/20 12:43	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 12:43	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/30/20 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		10/30/20 12:43	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/30/20 12:43	1
Dibromofluoromethane (Surr)	103		80 - 119		10/30/20 12:43	1
Toluene-d8 (Surr)	97		89 - 112		10/30/20 12:43	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/26/20 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136	10/24/20 05:20	10/26/20 21:45	1
1,1,2,2-Tetrachloroethane (2C)	75		46 - 136	10/24/20 05:20	10/26/20 21:45	1

Client Sample ID: GW046-204

Lab Sample ID: 410-17853-2

Date Collected: 10/20/20 09:57

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:51	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,1-Dichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/30/20 17:51	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 17:51	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW046-204

Lab Sample ID: 410-17853-2

Date Collected: 10/20/20 09:57

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 17:51	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 17:51	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:51	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 17:51	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:51	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 17:51	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 17:51	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/30/20 17:51	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/30/20 17:51	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/30/20 17:51	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/30/20 17:51	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/30/20 17:51	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:51	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Dichlorodifluoromethane	0.36	J	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 17:51	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/30/20 17:51	1
Isopropylbenzene	0.20	J	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 17:51	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:51	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 17:51	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 17:51	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
sec-Butylbenzene	2.3	J	5.0	0.50	0.20	ug/L		10/30/20 17:51	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:51	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW046-204

Lab Sample ID: 410-17853-2

Date Collected: 10/20/20 09:57

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 17:51	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/30/20 17:51	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:51	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/30/20 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		10/30/20 17:51	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/30/20 17:51	1
Dibromofluoromethane (Surr)	105		80 - 119		10/30/20 17:51	1
Toluene-d8 (Surr)	96		89 - 112		10/30/20 17:51	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/26/20 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	83		46 - 136	10/24/20 05:20	10/26/20 22:02	1
1,1,2,2-Tetrachloroethane (2C)	76		46 - 136	10/24/20 05:20	10/26/20 22:02	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/22/20 22:59	5
Chloride	11	D	2.0	1.5	1.0	mg/L		10/22/20 22:59	5
Sulfate	27	D	5.0	4.5	1.5	mg/L		10/22/20 22:59	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	43		0.20	0.15	0.096	mg/L		10/26/20 22:54	1
Magnesium	6.0		0.10	0.075	0.040	mg/L		10/26/20 22:54	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/26/20 22:54	1
Sodium	26		1.0	0.50	0.24	mg/L		10/27/20 08:55	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/25/20 06:35	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/25/20 06:35	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0014	J	0.0020	0.0016	0.00068	mg/L		10/23/20 14:57	1
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L		10/23/20 14:57	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	150		8.0	6.0	2.6	mg/L		10/22/20 23:16	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW046-204

Lab Sample ID: 410-17853-2

Date Collected: 10/20/20 09:57

Matrix: Water

Date Received: 10/21/20 10:25

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 23:16	1
Total Alkalinity as CaCO₃ to pH 4.5	150		8.0	6.0	2.6	mg/L		10/22/20 23:16	1
Nitrate Nitrite as N	0.10		0.10	0.090	0.040	mg/L		11/07/20 15:20	1

Client Sample ID: GW047-204

Lab Sample ID: 410-17853-3

Date Collected: 10/20/20 08:52

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:13	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/30/20 18:13	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:13	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 18:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:13	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:13	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:13	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:13	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 18:13	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 18:13	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/30/20 18:13	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/30/20 18:13	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/30/20 18:13	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/30/20 18:13	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/30/20 18:13	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:13	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:13	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW047-204

Lab Sample ID: 410-17853-3

Date Collected: 10/20/20 08:52

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Dichlorodifluoromethane	0.36	J	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L	—	10/30/20 18:13	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L	—	10/30/20 18:13	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L	—	10/30/20 18:13	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	10/30/20 18:13	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L	—	10/30/20 18:13	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L	—	10/30/20 18:13	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	10/30/20 18:13	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	10/30/20 18:13	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L	—	10/30/20 18:13	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L	—	10/30/20 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		81 - 118		10/30/20 18:13	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/30/20 18:13	1
Dibromofluoromethane (Surr)	105		80 - 119		10/30/20 18:13	1
Toluene-d8 (Surr)	95		89 - 112		10/30/20 18:13	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L	—	10/26/20 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	80		46 - 136	10/24/20 05:20	10/26/20 22:18	1
1,1,2,2-Tetrachloroethane (2C)	78		46 - 136	10/24/20 05:20	10/26/20 22:18	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	10/23/20 00:47	5
Chloride	11	D	2.0	1.5	1.0	mg/L	—	10/23/20 00:47	5
Sulfate	32	D M	5.0	4.5	1.5	mg/L	—	10/23/20 00:47	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW047-204

Lab Sample ID: 410-17853-3

Date Collected: 10/20/20 08:52

Matrix: Water

Date Received: 10/21/20 10:25

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	37		0.20	0.15	0.096	mg/L		10/26/20 22:45	1
Magnesium	5.0		0.10	0.075	0.040	mg/L		10/26/20 22:45	1
Potassium	2.2		0.50	0.38	0.20	mg/L		10/26/20 22:45	1
Sodium	24		1.0	0.50	0.24	mg/L		10/27/20 08:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/25/20 06:51	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/25/20 06:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L		10/23/20 14:59	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 14:59	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	2.6	mg/L		10/22/20 23:22	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 23:22	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	2.6	mg/L		10/22/20 23:22	1
Nitrate Nitrite as N	0.55		0.10	0.090	0.040	mg/L		11/07/20 15:22	1

Client Sample ID: GW062-204

Lab Sample ID: 410-17853-4

Date Collected: 10/20/20 11:13

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:35	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/30/20 18:35	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:35	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 18:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:35	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:35	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:35	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 18:35	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW062-204

Lab Sample ID: 410-17853-4

Date Collected: 10/20/20 11:13

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 18:35	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/30/20 18:35	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/30/20 18:35	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/30/20 18:35	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/30/20 18:35	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/30/20 18:35	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:35	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 18:35	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/30/20 18:35	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 18:35	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:35	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 18:35	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 18:35	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:35	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:35	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/30/20 18:35	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:35	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/30/20 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118					10/30/20 18:35	1
4-Bromofluorobenzene (Surr)	95		85 - 114					10/30/20 18:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW062-204

Lab Sample ID: 410-17853-4

Date Collected: 10/20/20 11:13

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		80 - 119		10/30/20 18:35	1
Toluene-d8 (Surr)	97		89 - 112		10/30/20 18:35	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/26/20 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	67		46 - 136	10/24/20 05:20	10/26/20 23:14	1
1,1,2,2-Tetrachloroethane (2C)	64		46 - 136	10/24/20 05:20	10/26/20 23:14	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/23/20 01:59	5
Chloride	7.8	D	2.0	1.5	1.0	mg/L		10/23/20 01:59	5
Sulfate	29	D	5.0	4.5	1.5	mg/L		10/23/20 01:59	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	32		0.20	0.15	0.096	mg/L		10/26/20 22:42	1
Magnesium	4.4		0.10	0.075	0.040	mg/L		10/26/20 22:42	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/26/20 22:42	1
Sodium	22		1.0	0.50	0.24	mg/L		10/27/20 08:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/25/20 06:55	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/25/20 06:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0014	J	0.0020	0.0016	0.00068	mg/L		10/23/20 15:01	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 15:01	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	2.6	mg/L		10/22/20 23:09	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 23:09	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	2.6	mg/L		10/22/20 23:09	1
Nitrate Nitrite as N	0.099	J	0.10	0.090	0.040	mg/L		11/07/20 15:25	1

Client Sample ID: TB204-54

Lab Sample ID: 410-17853-5

Date Collected: 10/20/20 14:00

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 13:05	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: TB204-54

Lab Sample ID: 410-17853-5

Date Collected: 10/20/20 14:00

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/30/20 13:05	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 13:05	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 13:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 13:05	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 13:05	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 13:05	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 13:05	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 13:05	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 13:05	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/30/20 13:05	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/30/20 13:05	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/30/20 13:05	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/30/20 13:05	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/30/20 13:05	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 13:05	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 13:05	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/30/20 13:05	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 13:05	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 13:05	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 13:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: TB204-54

Lab Sample ID: 410-17853-5

Date Collected: 10/20/20 14:00

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 13:05	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 13:05	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 13:05	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/30/20 13:05	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 13:05	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/30/20 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/30/20 13:05	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/30/20 13:05	1
Dibromofluoromethane (Surr)	103		80 - 119		10/30/20 13:05	1
Toluene-d8 (Surr)	98		89 - 112		10/30/20 13:05	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/26/20 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane (1C)	70		46 - 136	10/24/20 05:20	10/26/20 23:31	1
1,1,1,2-Tetrachloroethane (2C)	68		46 - 136	10/24/20 05:20	10/26/20 23:31	1

Client Sample ID: GW067-204

Lab Sample ID: 410-17853-6

Date Collected: 10/19/20 10:58

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
1,1,1-Trichloroethane	1.0	U	2.0	1.0	0.60	ug/L		10/30/20 19:19	2
1,1,2,2-Tetrachloroethane	25	D	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
1,1,2-Trichloroethane	1.0	U M	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
1,1-Dichloroethane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
1,1-Dichloroethene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
1,1-Dichloropropene	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2
1,2,3-Trichlorobenzene	2.0	U	10	2.0	0.80	ug/L		10/30/20 19:19	2
1,2,3-Trichloropropane	11	D	10	1.0	0.40	ug/L		10/30/20 19:19	2
1,2,4-Trichlorobenzene	2.0	U	10	2.0	0.60	ug/L		10/30/20 19:19	2
1,2,4-Trimethylbenzene	4.0	U	10	4.0	2.0	ug/L		10/30/20 19:19	2
1,2-Dibromo-3-Chloropropane	2.0	U M	10	2.0	0.60	ug/L		10/30/20 19:19	2
1,2-Dibromoethane	1.0	U M	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
1,2-Dichlorobenzene	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW067-204

Lab Sample ID: 410-17853-6

Date Collected: 10/19/20 10:58

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichloroethane	5.0	D	2.0	1.0	0.60	ug/L		10/30/20 19:19	2
1,2-Dichloropropane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
1,3,5-Trimethylbenzene	8.7	J D	10	2.0	0.60	ug/L		10/30/20 19:19	2
1,3-Dichlorobenzene	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2
1,3-Dichloropropane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
1,4-Dichlorobenzene	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2
2,2-Dichloropropane	1.0	U	2.0	1.0	0.60	ug/L		10/30/20 19:19	2
2-Butanone	2.0	U M	20	2.0	0.60	ug/L		10/30/20 19:19	2
2-Chlorotoluene	0.89	J D	10	1.0	0.40	ug/L		10/30/20 19:19	2
2-Hexanone	2.0	U M	20	2.0	0.60	ug/L		10/30/20 19:19	2
4-Chlorotoluene	0.41	J D	10	1.0	0.40	ug/L		10/30/20 19:19	2
4-Methyl-2-pentanone	2.0	U M	20	2.0	1.0	ug/L		10/30/20 19:19	2
Acetone	11	J D	40	4.0	1.4	ug/L		10/30/20 19:19	2
Acrolein	10	U	200	10	6.0	ug/L		10/30/20 19:19	2
Acrylonitrile	2.0	U	40	2.0	0.60	ug/L		10/30/20 19:19	2
Benzene	3.3	D	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Bromobenzene	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2
Bromochloromethane	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2
Bromodichloromethane	1.0	U M	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Bromoform	4.0	U	8.0	4.0	2.0	ug/L		10/30/20 19:19	2
Bromomethane	1.0	U	2.0	1.0	0.60	ug/L		10/30/20 19:19	2
Carbon disulfide	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2
Carbon tetrachloride	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Chlorobenzene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Chloroethane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Chloroform	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Chloromethane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Dibromochloromethane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Dibromomethane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Ethylbenzene	1.6	U	2.0	1.6	0.80	ug/L		10/30/20 19:19	2
Hexachlorobutadiene	8.0	U Q	10	8.0	4.0	ug/L		10/30/20 19:19	2
Isopropylbenzene	97	D	10	1.0	0.40	ug/L		10/30/20 19:19	2
m&p-Xylene	4.0	U	10	4.0	2.0	ug/L		10/30/20 19:19	2
Methyl tertiary butyl ether	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Methylene Chloride	1.3	J D	2.0	1.0	0.60	ug/L		10/30/20 19:19	2
Naphthalene	4.0	U	10	4.0	2.0	ug/L		10/30/20 19:19	2
n-Butylbenzene	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2
N-Propylbenzene	1.2	J D	10	1.0	0.40	ug/L		10/30/20 19:19	2
o-Xylene	1.3	J D	2.0	1.6	0.80	ug/L		10/30/20 19:19	2
p-Isopropyltoluene	20	D	10	1.0	0.40	ug/L		10/30/20 19:19	2
sec-Butylbenzene	8.8	J D	10	1.0	0.40	ug/L		10/30/20 19:19	2
Styrene	1.0	U	10	1.0	0.40	ug/L		10/30/20 19:19	2
tert-Butylbenzene	10	D	10	2.0	0.60	ug/L		10/30/20 19:19	2
Tetrachloroethene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Toluene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW067-204

Lab Sample ID: 410-17853-6

Date Collected: 10/19/20 10:58

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Trichloroethene	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Trichlorofluoromethane	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Vinyl acetate	4.0	U	20	4.0	1.4	ug/L		10/30/20 19:19	2
Vinyl chloride	1.0	U	2.0	1.0	0.40	ug/L		10/30/20 19:19	2
Xylenes, Total	4.0	U	12	4.0	2.8	ug/L		10/30/20 19:19	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		10/30/20 19:19	2
4-Bromofluorobenzene (Surr)	102		85 - 114		10/30/20 19:19	2
Dibromofluoromethane (Surr)	104		80 - 119		10/30/20 19:19	2
Toluene-d8 (Surr)	95		89 - 112		10/30/20 19:19	2

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.017	J M	0.029	0.019	0.0096	ug/L		10/26/20 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136	10/24/20 05:20	10/26/20 23:48	1
1,1,2,2-Tetrachloroethane (2C)	71	M	46 - 136	10/24/20 05:20	10/26/20 23:48	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/23/20 02:35	5
Chloride	27	D	2.0	1.5	1.0	mg/L		10/23/20 02:35	5
Sulfate	5.7	D	5.0	4.5	1.5	mg/L		10/23/20 02:35	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	100		0.20	0.15	0.096	mg/L		10/26/20 22:39	1
Magnesium	15		0.10	0.075	0.040	mg/L		10/26/20 22:39	1
Potassium	3.6		0.50	0.38	0.20	mg/L		10/26/20 22:39	1
Sodium	41		1.0	0.50	0.24	mg/L		10/27/20 08:46	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	1.5		0.21	0.10	0.041	mg/L		10/25/20 06:14	1
Manganese	3.3	J1	0.010	0.0052	0.0031	mg/L		10/25/20 06:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0010	J	0.0020	0.0016	0.00068	mg/L		10/23/20 15:03	1
Lead	0.000083	J	0.00050	0.00025	0.000071	mg/L		10/23/20 15:03	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	370		8.0	6.0	2.6	mg/L		10/22/20 22:49	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 22:49	1
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	6.0	2.6	mg/L		10/22/20 22:49	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 15:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW065-204

Lab Sample ID: 410-17853-7

Date Collected: 10/19/20 13:07

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:29	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/30/20 17:29	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 17:29	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 17:29	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 17:29	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:29	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 17:29	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:29	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 17:29	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 17:29	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/30/20 17:29	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/30/20 17:29	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/30/20 17:29	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/30/20 17:29	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/30/20 17:29	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:29	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 17:29	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/30/20 17:29	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW065-204

Lab Sample ID: 410-17853-7

Date Collected: 10/19/20 13:07

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 17:29	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 17:29	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 17:29	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 17:29	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 17:29	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 17:29	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/30/20 17:29	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 17:29	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/30/20 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		81 - 118		10/30/20 17:29	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/30/20 17:29	1
Dibromofluoromethane (Surr)	105		80 - 119		10/30/20 17:29	1
Toluene-d8 (Surr)	96		89 - 112		10/30/20 17:29	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/27/20 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	83		46 - 136	10/24/20 05:20	10/27/20 00:05	1
1,1,2,2-Tetrachloroethane (2C)	79		46 - 136	10/24/20 05:20	10/27/20 00:05	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/23/20 03:11	5
Chloride	20	D	2.0	1.5	1.0	mg/L		10/23/20 03:11	5
Sulfate	35	D	5.0	4.5	1.5	mg/L		10/23/20 03:11	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	57		0.20	0.15	0.096	mg/L		10/26/20 22:35	1
Magnesium	9.1		0.10	0.075	0.040	mg/L		10/26/20 22:35	1
Potassium	2.8		0.50	0.38	0.20	mg/L		10/26/20 22:35	1
Sodium	31		1.0	0.50	0.24	mg/L		10/27/20 08:42	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/25/20 06:38	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW065-204

Lab Sample ID: 410-17853-7

Date Collected: 10/19/20 13:07

Matrix: Water

Date Received: 10/21/20 10:25

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/25/20 06:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/23/20 15:05	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 15:05	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	190		8.0	6.0	2.6	mg/L		10/22/20 22:56	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 22:56	1
Total Alkalinity as CaCO ₃ to pH 4.5	190		8.0	6.0	2.6	mg/L		10/22/20 22:56	1
Nitrate Nitrite as N	0.090	U J1	0.10	0.090	0.040	mg/L		11/07/20 15:28	1

Client Sample ID: GW078-204

Lab Sample ID: 410-17853-8

Date Collected: 10/20/20 12:53

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:57	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/30/20 18:57	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:57	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 18:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:57	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:57	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:57	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:57	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 18:57	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 18:57	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/30/20 18:57	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/30/20 18:57	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/30/20 18:57	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/30/20 18:57	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW078-204

Lab Sample ID: 410-17853-8

Date Collected: 10/20/20 12:53

Matrix: Water

Date Received: 10/21/20 10:25

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/30/20 18:57	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:57	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 18:57	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		10/30/20 18:57	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 18:57	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 18:57	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 18:57	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 18:57	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 18:57	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 18:57	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/30/20 18:57	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 18:57	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/30/20 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		10/30/20 18:57	1
4-Bromofluorobenzene (Surr)	95		85 - 114		10/30/20 18:57	1
Dibromofluoromethane (Surr)	104		80 - 119		10/30/20 18:57	1
Toluene-d8 (Surr)	97		89 - 112		10/30/20 18:57	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/27/20 00:22	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW078-204

Lab Sample ID: 410-17853-8

Date Collected: 10/20/20 12:53

Matrix: Water

Date Received: 10/21/20 10:25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	79		46 - 136	10/24/20 05:20	10/27/20 00:22	1
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136	10/24/20 05:20	10/27/20 00:22	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/23/20 03:47	1
Chloride	6.7	D	2.0	1.5	1.0	mg/L		10/23/20 04:05	5
Sulfate	28	D M	5.0	4.5	1.5	mg/L		10/23/20 04:05	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	30		0.20	0.15	0.096	mg/L		10/26/20 22:32	1
Magnesium	4.2		0.10	0.075	0.040	mg/L		10/26/20 22:32	1
Potassium	2.1		0.50	0.38	0.20	mg/L		10/26/20 22:32	1
Sodium	21		1.0	0.50	0.24	mg/L		10/27/20 08:39	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/25/20 06:48	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/25/20 06:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L		10/23/20 15:07	1
Lead	0.00094		0.00050	0.00025	0.000071	mg/L		10/23/20 15:07	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	2.6	mg/L		10/22/20 23:02	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 23:02	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	2.6	mg/L		10/22/20 23:02	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 15:31	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-17853-1	TB204-55	105	94	103	97
410-17853-2	GW046-204	106	95	105	96
410-17853-3	GW047-204	107	94	105	95
410-17853-4	GW062-204	106	95	103	97
410-17853-5	TB204-54	104	95	103	98
410-17853-6	GW067-204	106	102	104	95
410-17853-7	GW065-204	108	94	105	96
410-17853-8	GW078-204	105	95	104	97
LCS 410-60246/5	Lab Control Sample	103	99	101	99
LCS 410-60246/6	Lab Control Sample	104	95	100	97
MB 410-60246/8	Method Blank	104	94	102	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-17853-1	TB204-55	75	75
410-17853-2	GW046-204	83	76
410-17853-2 MS	GW046-204	77	72
410-17853-3	GW047-204	80	78
410-17853-3 DU	GW047-204	74	72
410-17853-4	GW062-204	67	64
410-17853-5	TB204-54	70	68
410-17853-6	GW067-204	75	71 M
410-17853-7	GW065-204	83	79
410-17853-8	GW078-204	79	72
LCS 410-58072/2-A	Lab Control Sample	75	74
LCSD 410-58072/3-A	Lab Control Sample Dup	76	74
MB 410-58072/1-A	Method Blank	74	74

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-60246/8

Matrix: Water

Analysis Batch: 60246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 11:18	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		10/30/20 11:18	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 11:18	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 11:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 11:18	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 11:18	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 11:18	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 11:18	1
2-Butanone	0.823	J	10	1.0	0.30	ug/L		10/30/20 11:18	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		10/30/20 11:18	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		10/30/20 11:18	1
Acetone	2.0	U	20	2.0	0.70	ug/L		10/30/20 11:18	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		10/30/20 11:18	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		10/30/20 11:18	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		10/30/20 11:18	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 11:18	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 11:18	1
Hexachlorobutadiene	4.0	U M	5.0	4.0	2.0	ug/L		10/30/20 11:18	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-60246/8

Matrix: Water

Analysis Batch: 60246

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 11:18	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		10/30/20 11:18	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		10/30/20 11:18	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		10/30/20 11:18	1
p-Isopropyltoluene	2.42	J M	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
sec-Butylbenzene	2.25	J M	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		10/30/20 11:18	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		10/30/20 11:18	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		10/30/20 11:18	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		10/30/20 11:18	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		10/30/20 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/30/20 11:18	1
4-Bromofluorobenzene (Surr)	94		85 - 114		10/30/20 11:18	1
Dibromofluoromethane (Surr)	102		80 - 119		10/30/20 11:18	1
Toluene-d8 (Surr)	97		89 - 112		10/30/20 11:18	1

Lab Sample ID: LCS 410-60246/5

Matrix: Water

Analysis Batch: 60246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.0		ug/L		100	78 - 124
1,1,1-Trichloroethane	20.0	19.9		ug/L		100	74 - 131
1,1,2,2-Tetrachloroethane	20.0	18.4		ug/L		92	71 - 121
1,1,2-Trichloroethane	20.0	19.3		ug/L		96	80 - 119
1,1-Dichloroethane	20.0	19.1		ug/L		96	77 - 125
1,1-Dichloroethene	20.0	19.7		ug/L		98	71 - 131
1,1-Dichloropropene	20.0	19.1		ug/L		96	79 - 125
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	69 - 129
1,2,3-Trichloropropane	20.0	19.0		ug/L		95	73 - 122
1,2,4-Trichlorobenzene	20.0	19.5		ug/L		97	69 - 130
1,2,4-Trimethylbenzene	20.0	19.2		ug/L		96	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	19.2		ug/L		96	77 - 121
1,2-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 119
1,2-Dichloroethane	20.0	19.2		ug/L		96	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-60246/5

Matrix: Water

Analysis Batch: 60246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	18.4		ug/L		92	78 - 122
1,3,5-Trimethylbenzene	20.0	19.4		ug/L		97	75 - 124
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 119
1,3-Dichloropropane	20.0	18.3		ug/L		91	80 - 119
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	79 - 118
2,2-Dichloropropane	20.0	20.3		ug/L		101	60 - 139
2-Butanone	150	160		ug/L		107	56 - 143
2-Chlorotoluene	20.0	19.7		ug/L		99	79 - 122
2-Hexanone	100	96.4		ug/L		96	57 - 139
4-Chlorotoluene	20.0	19.6		ug/L		98	78 - 122
4-Methyl-2-pentanone	100	90.1		ug/L		90	67 - 130
Acetone	150	211		ug/L		141	39 - 160
Acrolein	150	106		ug/L		71	39 - 155
Acrylonitrile	100	86.2		ug/L		86	63 - 135
Benzene	20.0	18.6		ug/L		93	42 - 138
Bromobenzene	20.0	19.7		ug/L		98	80 - 120
Bromochloromethane	20.0	18.4		ug/L		92	78 - 123
Bromodichloromethane	20.0	19.3		ug/L		97	79 - 125
Bromoform	20.0	19.7		ug/L		99	66 - 130
Bromomethane	20.0	17.6		ug/L		88	53 - 141
Carbon disulfide	20.0	18.6		ug/L		93	64 - 133
Carbon tetrachloride	20.0	20.3		ug/L		102	72 - 136
Chlorobenzene	20.0	19.9		ug/L		100	82 - 118
Chloroethane	20.0	16.5		ug/L		82	60 - 138
Chloroform	20.0	19.5		ug/L		97	79 - 124
Chloromethane	20.0	15.4		ug/L		77	50 - 139
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	78 - 123
cis-1,3-Dichloropropene	20.0	18.5		ug/L		93	75 - 124
Dibromochloromethane	20.0	21.0		ug/L		105	74 - 126
Dibromomethane	20.0	19.2		ug/L		96	79 - 123
Dichlorodifluoromethane	20.0	15.8		ug/L		79	32 - 152
Ethylbenzene	20.0	19.7		ug/L		98	79 - 121
Hexachlorobutadiene	20.0	20.1		ug/L		100	66 - 134
Isopropylbenzene	20.0	20.4		ug/L		102	72 - 131
m&p-Xylene	40.0	40.4		ug/L		101	80 - 121
Methyl tertiary butyl ether	20.0	17.7		ug/L		88	71 - 124
Methylene Chloride	20.0	18.6		ug/L		93	74 - 124
Naphthalene	20.0	19.3		ug/L		97	61 - 128
n-Butylbenzene	20.0	18.9		ug/L		95	75 - 128
N-Propylbenzene	20.0	19.4		ug/L		97	76 - 126
o-Xylene	20.0	20.0		ug/L		100	78 - 122
p-Isopropyltoluene	20.0	19.9		ug/L		99	77 - 127
sec-Butylbenzene	20.0	19.6		ug/L		98	77 - 126
Styrene	20.0	20.0		ug/L		100	78 - 123
tert-Butylbenzene	20.0	19.9		ug/L		100	78 - 124
Tetrachloroethene	20.0	21.3		ug/L		107	74 - 129
Toluene	20.0	19.0		ug/L		95	80 - 121
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	75 - 124
trans-1,3-Dichloropropene	20.0	18.4		ug/L		92	73 - 127

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-60246/5

Matrix: Water

Analysis Batch: 60246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	19.7		ug/L		98	79 - 123
Trichlorofluoromethane	20.0	18.7		ug/L		93	65 - 141
Vinyl chloride	20.0	16.5		ug/L		83	58 - 137
Xylenes, Total	60.0	60.4		ug/L		101	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-60246/6

Matrix: Water

Analysis Batch: 60246

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	97.2		ug/L		97	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-58072/1-A

Matrix: Water

Analysis Batch: 58616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58072

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/24/20 19:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136	10/24/20 05:20	10/24/20 19:10	1
1,1,2,2-Tetrachloroethane (2C)	74		46 - 136	10/24/20 05:20	10/24/20 19:10	1

Lab Sample ID: LCS 410-58072/2-A

Matrix: Water

Analysis Batch: 58616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58072

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.128		ug/L		100	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	75		46 - 136
1,1,2,2-Tetrachloroethane (2C)	74		46 - 136

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-58072/3-A

Matrix: Water

Analysis Batch: 58616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58072

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.126		ug/L	-	98	60 - 140	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	76		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	74		46 - 136						

Lab Sample ID: 410-17853-2 MS

Matrix: Water

Analysis Batch: 58698

Client Sample ID: GW046-204

Prep Type: Total/NA

Prep Batch: 58072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.019	U	0.123	0.130		ug/L	-	105	60 - 140		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	77		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136								

Lab Sample ID: 410-17853-3 DU

Matrix: Water

Analysis Batch: 58698

Client Sample ID: GW047-204

Prep Type: Total/NA

Prep Batch: 58072

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.019	U	0.019	U	ug/L	-			NC	30
Surrogate	DU %Recovery	DU Qualifier	Limits							
1,1,2,2-Tetrachloroethane (1C)	74		46 - 136							
1,1,2,2-Tetrachloroethane (2C)	72		46 - 136							

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-57494/4

Matrix: Water

Analysis Batch: 57494

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L	-	10/22/20 22:23	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L	-	10/22/20 22:23	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L	-	10/22/20 22:23	1

Lab Sample ID: LCS 410-57494/3

Matrix: Water

Analysis Batch: 57494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromide	7.50	7.91		mg/L	-	105	90 - 110		
Chloride	3.00	3.05		mg/L	-	102	90 - 110		
Sulfate	7.50	7.73		mg/L	-	103	90 - 110		

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 410-17853-2 DU

Matrix: Water

Analysis Batch: 57494

Client Sample ID: GW046-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bromide	2.0	U	2.0	U	mg/L		NC	15
Chloride	11	D	10.3	D	mg/L		3	15
Sulfate	27	D	26.9	D	mg/L		0.1	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-57088/1-A

Matrix: Water

Analysis Batch: 58224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57088

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/25/20 06:07	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/25/20 06:07	1

Lab Sample ID: LCS 410-57088/2-A

Matrix: Water

Analysis Batch: 58224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.399		mg/L		99	87 - 115
Manganese	0.0200	0.0210		mg/L		105	90 - 114

Lab Sample ID: MB 410-57092/1-A

Matrix: Water

Analysis Batch: 58788

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57092

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/26/20 21:40	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/26/20 21:40	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/26/20 21:40	1
Sodium	0.324	J	1.0	0.50	0.24	mg/L		10/26/20 21:40	1

Lab Sample ID: LCS 410-57092/2-A

Matrix: Water

Analysis Batch: 58788

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.397		mg/L		99	87 - 113
Magnesium	0.200	0.194		mg/L		97	85 - 113
Potassium	5.60	5.75		mg/L		103	86 - 114

Lab Sample ID: LCS 410-57092/2-A

Matrix: Water

Analysis Batch: 58932

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	2.00	2.09		mg/L		104	87 - 115

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 410-17853-6 MS

Matrix: Water

Analysis Batch: 58224

Client Sample ID: GW067-204

Prep Type: Dissolved

Prep Batch: 57088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1.5		0.402	1.91		mg/L		97	87 - 115
Manganese	3.3	J1	0.0200	3.32	4	mg/L		89	90 - 114

Lab Sample ID: 410-17853-6 MSD

Matrix: Water

Analysis Batch: 58224

Client Sample ID: GW067-204

Prep Type: Dissolved

Prep Batch: 57088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	1.5		0.402	1.88		mg/L		91	87 - 115	1	20
Manganese	3.3	J1	0.0200	3.33	4	mg/L		153	90 - 114	0	20

Lab Sample ID: 410-17853-6 DU

Matrix: Water

Analysis Batch: 58224

Client Sample ID: GW067-204

Prep Type: Dissolved

Prep Batch: 57088

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	1.5		1.52		mg/L		0.2	20
Manganese	3.3	J1	3.33		mg/L		0.8	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-57137/1-A

Matrix: Water

Analysis Batch: 58414

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57137

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/23/20 14:29	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 14:29	1

Lab Sample ID: LCS 410-57137/2-A

Matrix: Water

Analysis Batch: 58414

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0613		mg/L		102	84 - 116
Lead	0.0300	0.0308		mg/L		103	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-57954/31

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 20:50	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 20:50	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		10/22/20 20:50	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-57954/34

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106

Lab Sample ID: LCSD 410-57954/35

Matrix: Water

Analysis Batch: 57954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-63338/102

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/07/20 14:52	1

Lab Sample ID: LCS 410-63338/103

Matrix: Water

Analysis Batch: 63338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.36		mg/L		94	90 - 110

Lab Sample ID: 410-17853-7 MS

Matrix: Water

Analysis Batch: 63338

Client Sample ID: GW065-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.090	U J1	1.00	1.11	J1	mg/L		111	90 - 110

Lab Sample ID: 410-17853-7 DU

Matrix: Water

Analysis Batch: 63338

Client Sample ID: GW065-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.090	U J1	0.090	U	mg/L		NC	10

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

GC/MS VOA

Analysis Batch: 60246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-1	TB204-55	Total/NA	Water	8260C DOD	
410-17853-2	GW046-204	Total/NA	Water	8260C DOD	
410-17853-3	GW047-204	Total/NA	Water	8260C DOD	
410-17853-4	GW062-204	Total/NA	Water	8260C DOD	
410-17853-5	TB204-54	Total/NA	Water	8260C DOD	
410-17853-6	GW067-204	Total/NA	Water	8260C DOD	
410-17853-7	GW065-204	Total/NA	Water	8260C DOD	
410-17853-8	GW078-204	Total/NA	Water	8260C DOD	
MB 410-60246/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-60246/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-60246/6	Lab Control Sample	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 58072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-1	TB204-55	Total/NA	Water	8011	
410-17853-2	GW046-204	Total/NA	Water	8011	
410-17853-3	GW047-204	Total/NA	Water	8011	
410-17853-4	GW062-204	Total/NA	Water	8011	
410-17853-5	TB204-54	Total/NA	Water	8011	
410-17853-6	GW067-204	Total/NA	Water	8011	
410-17853-7	GW065-204	Total/NA	Water	8011	
410-17853-8	GW078-204	Total/NA	Water	8011	
MB 410-58072/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-58072/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-58072/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-17853-2 MS	GW046-204	Total/NA	Water	8011	
410-17853-3 DU	GW047-204	Total/NA	Water	8011	

Analysis Batch: 58616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-58072/1-A	Method Blank	Total/NA	Water	8011	58072
LCS 410-58072/2-A	Lab Control Sample	Total/NA	Water	8011	58072
LCSD 410-58072/3-A	Lab Control Sample Dup	Total/NA	Water	8011	58072

Analysis Batch: 58698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-1	TB204-55	Total/NA	Water	8011	58072
410-17853-2	GW046-204	Total/NA	Water	8011	58072
410-17853-3	GW047-204	Total/NA	Water	8011	58072
410-17853-4	GW062-204	Total/NA	Water	8011	58072
410-17853-5	TB204-54	Total/NA	Water	8011	58072
410-17853-6	GW067-204	Total/NA	Water	8011	58072
410-17853-7	GW065-204	Total/NA	Water	8011	58072
410-17853-8	GW078-204	Total/NA	Water	8011	58072
410-17853-2 MS	GW046-204	Total/NA	Water	8011	58072
410-17853-3 DU	GW047-204	Total/NA	Water	8011	58072

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

HPLC/IC

Analysis Batch: 57494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Total/NA	Water	EPA 300.0 R2.1	
410-17853-3	GW047-204	Total/NA	Water	EPA 300.0 R2.1	
410-17853-4	GW062-204	Total/NA	Water	EPA 300.0 R2.1	
410-17853-6	GW067-204	Total/NA	Water	EPA 300.0 R2.1	
410-17853-7	GW065-204	Total/NA	Water	EPA 300.0 R2.1	
410-17853-8	GW078-204	Total/NA	Water	EPA 300.0 R2.1	
410-17853-8	GW078-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-57494/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-57494/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
410-17853-2 DU	GW046-204	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 57088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Dissolved	Water	Non-Digest Prep	
410-17853-3	GW047-204	Dissolved	Water	Non-Digest Prep	
410-17853-4	GW062-204	Dissolved	Water	Non-Digest Prep	
410-17853-6	GW067-204	Dissolved	Water	Non-Digest Prep	
410-17853-7	GW065-204	Dissolved	Water	Non-Digest Prep	
410-17853-8	GW078-204	Dissolved	Water	Non-Digest Prep	
MB 410-57088/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-57088/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-17853-6 MS	GW067-204	Dissolved	Water	Non-Digest Prep	
410-17853-6 MSD	GW067-204	Dissolved	Water	Non-Digest Prep	
410-17853-6 DU	GW067-204	Dissolved	Water	Non-Digest Prep	

Prep Batch: 57092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Total Recoverable	Water	3005A	
410-17853-3	GW047-204	Total Recoverable	Water	3005A	
410-17853-4	GW062-204	Total Recoverable	Water	3005A	
410-17853-6	GW067-204	Total Recoverable	Water	3005A	
410-17853-7	GW065-204	Total Recoverable	Water	3005A	
410-17853-8	GW078-204	Total Recoverable	Water	3005A	
MB 410-57092/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-57092/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 57137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Total/NA	Water	3005A	
410-17853-3	GW047-204	Total/NA	Water	3005A	
410-17853-4	GW062-204	Total/NA	Water	3005A	
410-17853-6	GW067-204	Total/NA	Water	3005A	
410-17853-7	GW065-204	Total/NA	Water	3005A	
410-17853-8	GW078-204	Total/NA	Water	3005A	
MB 410-57137/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-57137/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Metals

Analysis Batch: 58224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Dissolved	Water	6010C	57088
410-17853-3	GW047-204	Dissolved	Water	6010C	57088
410-17853-4	GW062-204	Dissolved	Water	6010C	57088
410-17853-6	GW067-204	Dissolved	Water	6010C	57088
410-17853-7	GW065-204	Dissolved	Water	6010C	57088
410-17853-8	GW078-204	Dissolved	Water	6010C	57088
MB 410-57088/1-A	Method Blank	Total/NA	Water	6010C	57088
LCS 410-57088/2-A	Lab Control Sample	Total/NA	Water	6010C	57088
410-17853-6 MS	GW067-204	Dissolved	Water	6010C	57088
410-17853-6 MSD	GW067-204	Dissolved	Water	6010C	57088
410-17853-6 DU	GW067-204	Dissolved	Water	6010C	57088

Analysis Batch: 58414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Total/NA	Water	6020A	57137
410-17853-3	GW047-204	Total/NA	Water	6020A	57137
410-17853-4	GW062-204	Total/NA	Water	6020A	57137
410-17853-6	GW067-204	Total/NA	Water	6020A	57137
410-17853-7	GW065-204	Total/NA	Water	6020A	57137
410-17853-8	GW078-204	Total/NA	Water	6020A	57137
MB 410-57137/1-A	Method Blank	Total Recoverable	Water	6020A	57137
LCS 410-57137/2-A	Lab Control Sample	Total Recoverable	Water	6020A	57137

Analysis Batch: 58788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Total Recoverable	Water	6010C	57092
410-17853-3	GW047-204	Total Recoverable	Water	6010C	57092
410-17853-4	GW062-204	Total Recoverable	Water	6010C	57092
410-17853-6	GW067-204	Total Recoverable	Water	6010C	57092
410-17853-7	GW065-204	Total Recoverable	Water	6010C	57092
410-17853-8	GW078-204	Total Recoverable	Water	6010C	57092
MB 410-57092/1-A	Method Blank	Total Recoverable	Water	6010C	57092
LCS 410-57092/2-A	Lab Control Sample	Total Recoverable	Water	6010C	57092

Analysis Batch: 58932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Total Recoverable	Water	6010C	57092
410-17853-3	GW047-204	Total Recoverable	Water	6010C	57092
410-17853-4	GW062-204	Total Recoverable	Water	6010C	57092
410-17853-6	GW067-204	Total Recoverable	Water	6010C	57092
410-17853-7	GW065-204	Total Recoverable	Water	6010C	57092
410-17853-8	GW078-204	Total Recoverable	Water	6010C	57092
LCS 410-57092/2-A	Lab Control Sample	Total Recoverable	Water	6010C	57092

General Chemistry

Analysis Batch: 57954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Total/NA	Water	2320B-2011	
410-17853-3	GW047-204	Total/NA	Water	2320B-2011	
410-17853-4	GW062-204	Total/NA	Water	2320B-2011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

General Chemistry (Continued)

Analysis Batch: 57954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-6	GW067-204	Total/NA	Water	2320B-2011	
410-17853-7	GW065-204	Total/NA	Water	2320B-2011	
410-17853-8	GW078-204	Total/NA	Water	2320B-2011	
MB 410-57954/31	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-57954/34	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 410-57954/35	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 63338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-17853-2	GW046-204	Total/NA	Water	353.2	
410-17853-3	GW047-204	Total/NA	Water	353.2	
410-17853-4	GW062-204	Total/NA	Water	353.2	
410-17853-6	GW067-204	Total/NA	Water	353.2	
410-17853-7	GW065-204	Total/NA	Water	353.2	
410-17853-8	GW078-204	Total/NA	Water	353.2	
MB 410-63338/102	Method Blank	Total/NA	Water	353.2	
LCS 410-63338/103	Lab Control Sample	Total/NA	Water	353.2	
410-17853-7 MS	GW065-204	Total/NA	Water	353.2	
410-17853-7 DU	GW065-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: TB204-55

Date Collected: 10/20/20 14:00

Date Received: 10/21/20 10:25

Lab Sample ID: 410-17853-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60246	10/30/20 12:43	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 21:45	AC3T	ELLE

Client Sample ID: GW046-204

Date Collected: 10/20/20 09:57

Date Received: 10/21/20 10:25

Lab Sample ID: 410-17853-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60246	10/30/20 17:51	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 22:02	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	57494	10/22/20 22:59	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57088	10/21/20 20:40	UJLA	ELLE
Dissolved	Analysis	6010C		1	58224	10/25/20 06:35	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58788	10/26/20 22:54	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58932	10/27/20 08:55	MDP5	ELLE
Total/NA	Prep	3005A			57137	10/22/20 03:31	UJL8	ELLE
Total/NA	Analysis	6020A		1	58414	10/23/20 14:57	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/22/20 23:16	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:20	KGQ6	ELLE

Client Sample ID: GW047-204

Date Collected: 10/20/20 08:52

Date Received: 10/21/20 10:25

Lab Sample ID: 410-17853-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60246	10/30/20 18:13	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 22:18	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	57494	10/23/20 00:47	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57088	10/21/20 20:40	UJLA	ELLE
Dissolved	Analysis	6010C		1	58224	10/25/20 06:51	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58788	10/26/20 22:45	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58932	10/27/20 08:52	MDP5	ELLE
Total/NA	Prep	3005A			57137	10/22/20 03:31	UJL8	ELLE
Total/NA	Analysis	6020A		1	58414	10/23/20 14:59	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/22/20 23:22	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:22	KGQ6	ELLE

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Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW062-204

Lab Sample ID: 410-17853-4

Date Collected: 10/20/20 11:13

Matrix: Water

Date Received: 10/21/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60246	10/30/20 18:35	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 23:14	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	57494	10/23/20 01:59	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57088	10/21/20 20:40	UJLA	ELLE
Dissolved	Analysis	6010C		1	58224	10/25/20 06:55	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58788	10/26/20 22:42	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58932	10/27/20 08:49	MDP5	ELLE
Total/NA	Prep	3005A			57137	10/22/20 03:31	UJL8	ELLE
Total/NA	Analysis	6020A		1	58414	10/23/20 15:01	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/22/20 23:09	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:25	KGQ6	ELLE

Client Sample ID: TB204-54

Lab Sample ID: 410-17853-5

Date Collected: 10/20/20 14:00

Matrix: Water

Date Received: 10/21/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60246	10/30/20 13:05	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 23:31	AC3T	ELLE

Client Sample ID: GW067-204

Lab Sample ID: 410-17853-6

Date Collected: 10/19/20 10:58

Matrix: Water

Date Received: 10/21/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		2	60246	10/30/20 19:19	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/26/20 23:48	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	57494	10/23/20 02:35	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57088	10/21/20 20:40	UJLA	ELLE
Dissolved	Analysis	6010C		1	58224	10/25/20 06:14	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58788	10/26/20 22:39	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58932	10/27/20 08:46	MDP5	ELLE
Total/NA	Prep	3005A			57137	10/22/20 03:31	UJL8	ELLE
Total/NA	Analysis	6020A		1	58414	10/23/20 15:03	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/22/20 22:49	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:26	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Client Sample ID: GW065-204

Lab Sample ID: 410-17853-7

Date Collected: 10/19/20 13:07

Matrix: Water

Date Received: 10/21/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60246	10/30/20 17:29	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/27/20 00:05	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	57494	10/23/20 03:11	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57088	10/21/20 20:40	UJLA	ELLE
Dissolved	Analysis	6010C		1	58224	10/25/20 06:38	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58788	10/26/20 22:35	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58932	10/27/20 08:42	MDP5	ELLE
Total/NA	Prep	3005A			57137	10/22/20 03:31	UJL8	ELLE
Total/NA	Analysis	6020A		1	58414	10/23/20 15:05	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/22/20 22:56	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:28	KGQ6	ELLE

Client Sample ID: GW078-204

Lab Sample ID: 410-17853-8

Date Collected: 10/20/20 12:53

Matrix: Water

Date Received: 10/21/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	60246	10/30/20 18:57	K4WN	ELLE
Total/NA	Prep	8011			58072	10/24/20 05:20	UKQ8	ELLE
Total/NA	Analysis	8011		1	58698	10/27/20 00:22	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		1	57494	10/23/20 03:47	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	57494	10/23/20 04:05	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			57088	10/21/20 20:40	UJLA	ELLE
Dissolved	Analysis	6010C		1	58224	10/25/20 06:48	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58788	10/26/20 22:32	UCIG	ELLE
Total Recoverable	Prep	3005A			57092	10/21/20 20:50	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	58932	10/27/20 08:39	MDP5	ELLE
Total/NA	Prep	3005A			57137	10/22/20 03:31	UJL8	ELLE
Total/NA	Analysis	6020A		1	58414	10/23/20 15:07	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	57954	10/22/20 23:02	JB	ELLE
Total/NA	Analysis	353.2		1	63338	11/07/20 15:31	KGQ6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-17853-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-17853-1	TB204-55	Water	10/20/20 14:00	10/21/20 10:25	
410-17853-2	GW046-204	Water	10/20/20 09:57	10/21/20 10:25	
410-17853-3	GW047-204	Water	10/20/20 08:52	10/21/20 10:25	
410-17853-4	GW062-204	Water	10/20/20 11:13	10/21/20 10:25	
410-17853-5	TB204-54	Water	10/20/20 14:00	10/21/20 10:25	
410-17853-6	GW067-204	Water	10/19/20 10:58	10/21/20 10:25	
410-17853-7	GW065-204	Water	10/19/20 13:07	10/21/20 10:25	
410-17853-8	GW078-204	Water	10/20/20 12:53	10/21/20 10:25	

Eurofins Lancaster Laboratories Env, LLC



225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204- 55

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (2250C)	BTEX (2250C)	BTEXN (2250C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	TB204- 55	10-20-2020	1400	4	2			2								
2																
3																
4																
5																

Associated with:

GW062 - 204
GW046 - 204
GW047 - 204

SAMPLER(S):
jm

COURIER AND SHIPPING NUMBER:
FedEx 7718 5149 4396

RELINQUISHED BY:

DATE

TIME

RECEIVED BY:

DATE

TIME

Printed Name and Signature:
J. Messenger

Printed Name and Signature:
J. Messenger

Printed Name and Signature:
J. Messenger

Printed Name and Signature:
J. Messenger

Printed Name and Signature:
Nicole Reiff

Printed Name and Signature:
Nicole Reiff

Printed Name and Signature:
Nicole Reiff

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Nicole Reiff

Printed Name and Signature:
Nicole Reiff

10-20-2020

1630

10/24/20

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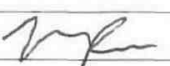
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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-046-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4 (Oct-Dec)	

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEX (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW046-204	10-20-2020	0957	10	3	—	2	1	1*	1	1	1				
2																
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

TB204- 55

SAMPLER(S): <i>D. Schmeelk</i>				COURIER AND SHIPPING NUMBER: FedEx 7718 5149 4396			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
<i>D. Schmeelk</i> 		10-20-2020	1630				
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
				<i>Nicole Reiff</i> 		10/21/20	1025

gem

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-047-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tiamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Mn, Hg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity/ (Total, Carbonate, and Bicarbonate) (354.2)	Carbon Dioxide (354.2)	COMMENTS		
1	GW047-204	10-20-2020	0852	10	3	—	2	1	1*	1	1	1	—			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): D. Schmeelk										COURIER AND SHIPPING NUMBER: FedEx 7718 5149 4396					TB204- 55	
RELINQUISHED BY:										RECEIVED BY:						
DATE										DATE					TIME	
Printed Name and Signature: D. Schmeelk										Printed Name and Signature: Nicole Kutt						
Printed Name and Signature: [Signature]										Printed Name and Signature: [Signature]						
Printed Name and Signature: [Signature]										Printed Name and Signature: [Signature]						
Printed Name and Signature: [Signature]										Printed Name and Signature: [Signature]						

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-062-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamon: tlamon@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C) BTEX	ED8 (8260C) BTEX	ED8 (8260C) BTEX	ED8 (8260C) BTEX	ED8 (8260C) BTEX	ED8 (8260C) BTEX	ED8 (8260C) BTEX	ED8 (8260C) BTEX	ED8 (8260C) BTEX		ED8 (8260C) BTEX
1	GW062-204	10-20-2020	1113	10	3	—	2	1	1*	1	1	1	1		
2															
3															
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk DATE: 10-20-2020 TIME: 1630 COURIER AND SHIPPING NUMBER: FedEx 7718 5149 4396 RECEIVED BY: Nicole Ruff DATE: 10/24/20 TIME: 1025															

QCM

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-54	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (4200C)	BTEX (4200C)	BTEXN (4200C)	EDB (6011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-54	10-20-2020	1400	4	2	—	2								
2															
3															
4															
5															
Associated with: GW065-204 GW067-204 GW078-204															
SAMPLER(S): J. Messenger				COURIER AND SHIPPING NUMBER: FedEx 7718 5149 4385											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: J. Messenger				10-20-2020	1630	Printed Name and Signature: Wesley Miller				10/21/2020	1019				
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-065-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C) BTEX	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM2320B)	Methane (8SK-175)	COMMENTS	
1	GW065-204	10-19-2020	1307	10	3	2	1	1*	1	1	1				
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): D. Schmiedt				COURIER AND SHIPPING NUMBER: FedEx 7718 5149 4385											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Dylan Schmiedt				10-19-2020		1630		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Wesley Miller				10/21/2020		10A	

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-078-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	(8260C) BTEX	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW078-204	10-20-2020	1253	10	3		2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **D. Schmeck**

COURIER AND SHIPPING NUMBER: **FedEx 7718 5149 4385**

RELINQUISHED BY: **D. Schmeck**

DATE: **10-20-2020**

TIME: **1630**

Printed Name and Signature: **D. Schmeck**

Printed Name and Signature: **Wesley Miller**

Printed Name and Signature: **Wesley Miller**

DATE: **10/24/2020**

TIME: **1619**

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-17853-1

Login Number: 17853**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-18029-1

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 2

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
1/15/2021 6:41:04 PM

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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
1/15/2021 6:41:04 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	The reported value is from a dilution.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Job ID: 410-18029-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-18029-1

Revision - 1/15/2021

The report being provided is a revision of the original report sent on 11/20/2020. The report is being revised due to: Sample GWS8-451-204 (410-18029-5), along with its sample duplicate and MS/MSD, was reanalyzed for Dissolved Iron and Manganese 6010C, due to discrepancies between the sample and the MS/MSD.

Report revision history

Revision 1 - 12/18/2020 - Reason - The limits for the MS/MSD for Lead 6020A were corrected from 88-118% to 88-115% per the QSM..

Receipt

The samples were received on 10/22/2020 10:41 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.0° C, 1.1° C, 1.3° C and 1.4° C.

GC/MS VOA

Method 8260C DOD: The response for Dichlorodifluoromethane in the initial calibration verification associated with batch 410-61497 marginally exceeds the DoD acceptance criteria. Due to the marginal nature of the outlier(s), the data are reported.

Method 8260C DOD: The closing continuing calibration verification (CCVC) associated with batch 410-61497 recovered outside the QC acceptance limits for Vinyl acetate. The response for the compound was within specification for the Continuing Calibration verification for this analytical batch.

Method 8260C DOD: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: GW153-484-204 (410-18029-1), GWS1-447-204 (410-18029-3), GWS8-451-204 (410-18029-5), GWS8-451-204 (410-18029-5[MSJ]) and GWS8-451-204 (410-18029-5[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C DOD: The response for 2-Butanone in the continuing calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-61889. Due to the marginal nature of the outlier(s), the data are reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW153-484-204 (410-18029-1), GW024-204 (410-18029-2), GWS1-447-204 (410-18029-3), TB204-58 (410-18029-4), GWS8-451-204 (410-18029-5), TB204-59 (410-18029-6), GW152-484-204 (410-18029-7), GW151-484-204 (410-18029-8), GW151-484-604 (410-18029-9), TB204-57 (410-18029-10), GW060-204 (410-18029-11) and GW002-204 (410-18029-12). The requested target analyte list includes Acrolein and Acrylonitrile, an acid-labile compound that degrades in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010C: The following report(s) required a revision: It was noticed that there were high % recoveries of the Matrix Spike (MS) and Matrix Spike Duplicated (MSD) for Dissolved Iron and Manganese. Upon further review of the data, it was noticed that there may have been data reported incorrectly from prep batch 410-58472 for the FIELD_FLTRD / MTL_ND_Prep / 6010C_DOD5 method chain. The samples were digested in duplicate to confirm the results originally reported. However, after preparation in duplicate the samples have been found to disagree with the original results. Therefore; the results for the following samples have changed from the original report: GWS8-451-204 (410-18029-5), 410-18029-5[DU], 410-18029-5[MS] and 410-18029-5[MSD].

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Job ID: 410-18029-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW153-484-204

Lab Sample ID: 410-18029-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	150	D	100	40	20	ug/L	20		8260C DOD	Total/NA
1,2-Dibromoethane	49	D	20	10	4.0	ug/L	20		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	58	J D	100	20	6.0	ug/L	20		8260C DOD	Total/NA
2-Butanone	1000	D	200	20	6.0	ug/L	20		8260C DOD	Total/NA
2-Hexanone	1600	D	200	20	6.0	ug/L	20		8260C DOD	Total/NA
4-Methyl-2-pentanone	890	D	200	20	10	ug/L	20		8260C DOD	Total/NA
Acetone	2500	D	400	40	14	ug/L	20		8260C DOD	Total/NA
Ethylbenzene	320	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
Isopropylbenzene	94	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
m&p-Xylene	960	D	100	40	20	ug/L	20		8260C DOD	Total/NA
Naphthalene	420	D	100	40	20	ug/L	20		8260C DOD	Total/NA
N-Propylbenzene	36	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
o-Xylene	520	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
p-Isopropyltoluene	500	D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
sec-Butylbenzene	8.1	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
Xylenes, Total	1500		120	40	28	ug/L	20		8260C DOD	Total/NA
Benzene - DL	14000	D	200	100	40	ug/L	200		8260C DOD	Total/NA
Toluene - DL	10000	D	200	100	40	ug/L	200		8260C DOD	Total/NA
Ethylene Dibromide (1C)	35	D	5.7	3.8	1.9	ug/L	200		8011	Total/NA
Bromide	1.4	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	14	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	1.8	J D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	130		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	20		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	39		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.0039		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00013	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	370		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	370		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW024-204

Lab Sample ID: 410-18029-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	30	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	47		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	7.7		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.8		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	24		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.0077	J	0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	160		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW024-204 (Continued)

Lab Sample ID: 410-18029-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity as CaCO ₃ to pH 4.5	160		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GWS1-447-204

Lab Sample ID: 410-18029-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	250	J D	500	200	100	ug/L	100		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	79	J D	500	100	30	ug/L	100		8260C DOD	Total/NA
2-Butanone	1100	D	1000	100	30	ug/L	100		8260C DOD	Total/NA
2-Hexanone	1100	D	1000	100	30	ug/L	100		8260C DOD	Total/NA
4-Methyl-2-pentanone	830	J D	1000	100	50	ug/L	100		8260C DOD	Total/NA
Acetone	2000	D	2000	200	70	ug/L	100		8260C DOD	Total/NA
Benzene	1700	D	100	50	20	ug/L	100		8260C DOD	Total/NA
Ethylbenzene	590	D	100	80	40	ug/L	100		8260C DOD	Total/NA
Isopropylbenzene	72	J D	500	50	20	ug/L	100		8260C DOD	Total/NA
m&p-Xylene	1900	D	500	200	100	ug/L	100		8260C DOD	Total/NA
Naphthalene	150	J D	500	200	100	ug/L	100		8260C DOD	Total/NA
N-Propylbenzene	59	J D	500	50	20	ug/L	100		8260C DOD	Total/NA
o-Xylene	1100	D	100	80	40	ug/L	100		8260C DOD	Total/NA
p-Isopropyltoluene	290	J D	500	50	20	ug/L	100		8260C DOD	Total/NA
Toluene	4000	D	100	50	20	ug/L	100		8260C DOD	Total/NA
Xylenes, Total	3000		600	200	140	ug/L	100		8260C DOD	Total/NA
Ethylene Dibromide (1C)	5.3	D M	1.4	0.96	0.48	ug/L	50		8011	Total/NA
Bromide	3.3	D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	55	D	4.0	3.0	2.0	mg/L	10		EPA 300.0 R2.1	Total/NA
Calcium	200		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	34		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.8		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	48		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	3.2		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	7.1		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0046		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00027	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	560		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	560		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-58

Lab Sample ID: 410-18029-4

No Detections.

Client Sample ID: GWS8-451-204

Lab Sample ID: 410-18029-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	6.0	J D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
1,2-Dibromoethane	32	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	2.8	J D	25	5.0	1.5	ug/L	5		8260C DOD	Total/NA
2-Butanone	86	D	50	5.0	1.5	ug/L	5		8260C DOD	Total/NA
2-Hexanone	490	J1 D	50	5.0	1.5	ug/L	5		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GWS8-451-204 (Continued)

Lab Sample ID: 410-18029-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone	190	D	50	5.0	2.5	ug/L	5		8260C DOD	Total/NA
Acetone	670	D	100	10	3.5	ug/L	5		8260C DOD	Total/NA
Benzene	770	J1 D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Ethylbenzene	15	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
Isopropylbenzene	200	J1 D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
m&p-Xylene	75	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
Naphthalene	17	J D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
N-Propylbenzene	1.1	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
o-Xylene	51	J1 D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
p-Isopropyltoluene	30	D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Toluene	390	J1 D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Xylenes, Total	130		30	10	7.0	ug/L	5		8260C DOD	Total/NA
Ethylene Dibromide (1C)	28	D M J1	5.7	3.8	1.9	ug/L	200		8011	Total/NA
Chloride	12	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	4.5	J D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	110		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	20		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.4		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	33		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	6.0	J1	0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	2.2	J1	0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.010		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00023	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	450		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	450		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-59

Lab Sample ID: 410-18029-6

No Detections.

Client Sample ID: GW152-484-204

Lab Sample ID: 410-18029-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	20		5.0	2.0	1.0	ug/L	1		8260C DOD	Total/NA
2-Hexanone	1.7	J	10	1.0	0.30	ug/L	1		8260C DOD	Total/NA
4-Methyl-2-pentanone	2.2	J	10	1.0	0.50	ug/L	1		8260C DOD	Total/NA
Acetone	7.0	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Benzene	59		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylbenzene	18		1.0	0.80	0.40	ug/L	1		8260C DOD	Total/NA
Isopropylbenzene	51		5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Naphthalene	6.9		5.0	2.0	1.0	ug/L	1		8260C DOD	Total/NA
N-Propylbenzene	4.2	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
o-Xylene	6.5		1.0	0.80	0.40	ug/L	1		8260C DOD	Total/NA
p-Isopropyltoluene	7.8		5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Toluene	0.65	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Xylenes, Total	6.5		6.0	2.0	1.4	ug/L	1		8260C DOD	Total/NA
Chloride	77	D	8.0	6.0	4.0	mg/L	20		EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW152-484-204 (Continued)

Lab Sample ID: 410-18029-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Sulfate	38	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	160		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	27		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	5.0		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	44		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.0048		0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00025	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	500		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	500		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: GW151-484-204

Lab Sample ID: 410-18029-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.2	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Benzene	0.38	J M	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Chloroform	0.44	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	0.24	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.030		0.028	0.019	0.0095	ug/L	1			8011	Total/NA
Chloride	78	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	330	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	160		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	25		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	4.1		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	40		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Bicarbonate Alkalinity as CaCO ₃	220		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	220		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.36		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW151-484-604

Lab Sample ID: 410-18029-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	4.3	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Benzene	0.27	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Chloroform	0.42	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	0.99	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.030		0.029	0.019	0.0095	ug/L	1			8011	Total/NA
Chloride	79	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	310	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	160		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	25		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	4.1		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW151-484-604 (Continued)

Lab Sample ID: 410-18029-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Sodium	40		1.0	0.50	0.24	mg/L	1			6010C	Total
Manganese	0.19		0.010	0.0052	0.0031	mg/L	1			6010C	Recoverable Dissolved
Bicarbonate Alkalinity as CaCO ₃	200		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	200		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.40		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: TB204-57

Lab Sample ID: 410-18029-10

No Detections.

Client Sample ID: GW060-204

Lab Sample ID: 410-18029-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	19	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	41	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	66		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	9.8		0.10	0.075	0.040	mg/L	1			6010C	Recoverable Total
Potassium	3.0		0.50	0.38	0.20	mg/L	1			6010C	Recoverable Total
Sodium	30		1.0	0.50	0.24	mg/L	1			6010C	Recoverable Total
Bicarbonate Alkalinity as CaCO ₃	220		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	220		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: GW002-204

Lab Sample ID: 410-18029-12

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	32	D	4.0	3.0	2.0	mg/L	10			EPA 300.0 R2.1	Total/NA
Sulfate	44	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	49		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	7.1		0.10	0.075	0.040	mg/L	1			6010C	Recoverable Total
Potassium	2.5		0.50	0.38	0.20	mg/L	1			6010C	Recoverable Total
Sodium	23		1.0	0.50	0.24	mg/L	1			6010C	Recoverable Total
Arsenic	0.00087	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	1.5		0.10	0.090	0.040	mg/L	1			353.2	Total/NA

Client Sample ID: GW149-484-204

Lab Sample ID: 410-18029-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	310	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	100	D	25	5.0	1.5	ug/L	5			8260C DOD	Total/NA
2-Butanone	25	J D	50	5.0	1.5	ug/L	5			8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW149-484-204 (Continued)

Lab Sample ID: 410-18029-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	71	D	50	5.0	1.5	ug/L	5		8260C DOD	Total/NA
4-Methyl-2-pentanone	28	J D	50	5.0	2.5	ug/L	5		8260C DOD	Total/NA
Acetone	86	J D	100	10	3.5	ug/L	5		8260C DOD	Total/NA
Benzene	1500	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Ethylbenzene	390	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
Isopropylbenzene	44	D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
m&p-Xylene	1400	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
Naphthalene	140	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
n-Butylbenzene	8.5	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
N-Propylbenzene	53	D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
o-Xylene	760	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
p-Isopropyltoluene	10	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Xylenes, Total	2200		30	10	7.0	ug/L	5		8260C DOD	Total/NA
Toluene - DL	3900	D	50	25	10	ug/L	50		8260C DOD	Total/NA
Ethylene Dibromide (1C)	17	D M	5.8	3.8	1.9	ug/L	200		8011	Total/NA
Chloride	13	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	93		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	15		0.10	0.075	0.040	mg/L	1		6010C	Total
Potassium	3.4		0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	32		1.0	0.50	0.24	mg/L	1		6010C	Total
Arsenic	0.0038		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00057		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	320		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	320		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-56

Lab Sample ID: 410-18029-14

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW153-484-204

Lab Sample ID: 410-18029-1

Date Collected: 10/21/20 10:35

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
1,1,1-Trichloroethane	10	U	20	10	6.0	ug/L		11/03/20 18:48	20
1,1,2,2-Tetrachloroethane	10	U M	20	10	4.0	ug/L		11/03/20 18:48	20
1,1,2-Trichloroethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
1,1-Dichloroethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
1,1-Dichloroethene	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
1,1-Dichloropropene	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
1,2,3-Trichlorobenzene	20	U	100	20	8.0	ug/L		11/03/20 18:48	20
1,2,3-Trichloropropane	10	U M	100	10	4.0	ug/L		11/03/20 18:48	20
1,2,4-Trichlorobenzene	20	U	100	20	6.0	ug/L		11/03/20 18:48	20
1,2,4-Trimethylbenzene	150	D	100	40	20	ug/L		11/03/20 18:48	20
1,2-Dibromo-3-Chloropropane	20	U M	100	20	6.0	ug/L		11/03/20 18:48	20
1,2-Dibromoethane	49	D	20	10	4.0	ug/L		11/03/20 18:48	20
1,2-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
1,2-Dichloroethane	10	U M	20	10	6.0	ug/L		11/03/20 18:48	20
1,2-Dichloropropane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
1,3,5-Trimethylbenzene	58	J D	100	20	6.0	ug/L		11/03/20 18:48	20
1,3-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
1,3-Dichloropropane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
1,4-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
2,2-Dichloropropane	10	U	20	10	6.0	ug/L		11/03/20 18:48	20
2-Butanone	1000	D	200	20	6.0	ug/L		11/03/20 18:48	20
2-Chlorotoluene	10	U M	100	10	4.0	ug/L		11/03/20 18:48	20
2-Hexanone	1600	D	200	20	6.0	ug/L		11/03/20 18:48	20
4-Chlorotoluene	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
4-Methyl-2-pentanone	890	D	200	20	10	ug/L		11/03/20 18:48	20
Acetone	2500	D	400	40	14	ug/L		11/03/20 18:48	20
Acrolein	100	U	2000	100	60	ug/L		11/03/20 18:48	20
Acrylonitrile	20	U	400	20	6.0	ug/L		11/03/20 18:48	20
Bromobenzene	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
Bromochloromethane	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
Bromodichloromethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Bromoform	40	U	80	40	20	ug/L		11/03/20 18:48	20
Bromomethane	10	U	20	10	6.0	ug/L		11/03/20 18:48	20
Carbon disulfide	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
Carbon tetrachloride	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Chlorobenzene	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Chloroethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Chloroform	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Chloromethane	10	U M	20	10	4.0	ug/L		11/03/20 18:48	20
cis-1,2-Dichloroethene	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
cis-1,3-Dichloropropene	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Dibromochloromethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Dibromomethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Dichlorodifluoromethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Ethylbenzene	320	D	20	16	8.0	ug/L		11/03/20 18:48	20
Hexachlorobutadiene	80	U	100	80	40	ug/L		11/03/20 18:48	20
Isopropylbenzene	94	J D	100	10	4.0	ug/L		11/03/20 18:48	20
m&p-Xylene	960	D	100	40	20	ug/L		11/03/20 18:48	20

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW153-484-204

Lab Sample ID: 410-18029-1

Date Collected: 10/21/20 10:35

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methyl tertiary butyl ether	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Methylene Chloride	10	U	20	10	6.0	ug/L		11/03/20 18:48	20
Naphthalene	420	D	100	40	20	ug/L		11/03/20 18:48	20
n-Butylbenzene	10	U	100	10	4.0	ug/L		11/03/20 18:48	20
N-Propylbenzene	36	J D	100	10	4.0	ug/L		11/03/20 18:48	20
o-Xylene	520	D	20	16	8.0	ug/L		11/03/20 18:48	20
p-Isopropyltoluene	500	D	100	10	4.0	ug/L		11/03/20 18:48	20
sec-Butylbenzene	8.1	J D	100	10	4.0	ug/L		11/03/20 18:48	20
Styrene	10	U M	100	10	4.0	ug/L		11/03/20 18:48	20
tert-Butylbenzene	20	U	100	20	6.0	ug/L		11/03/20 18:48	20
Tetrachloroethene	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
trans-1,2-Dichloroethene	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
trans-1,3-Dichloropropene	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Trichloroethene	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Trichlorofluoromethane	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Vinyl acetate	40	U Q	200	40	14	ug/L		11/03/20 18:48	20
Vinyl chloride	10	U	20	10	4.0	ug/L		11/03/20 18:48	20
Xylenes, Total	1500		120	40	28	ug/L		11/03/20 18:48	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/03/20 18:48	20
4-Bromofluorobenzene (Surr)	105		85 - 114		11/03/20 18:48	20
Dibromofluoromethane (Surr)	95		80 - 119		11/03/20 18:48	20
Toluene-d8 (Surr)	103		89 - 112		11/03/20 18:48	20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	14000	D	200	100	40	ug/L		11/03/20 19:08	200
Toluene	10000	D	200	100	40	ug/L		11/03/20 19:08	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/03/20 19:08	200
4-Bromofluorobenzene (Surr)	99		85 - 114		11/03/20 19:08	200
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 19:08	200
Toluene-d8 (Surr)	103		89 - 112		11/03/20 19:08	200

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	35	D	5.7	3.8	1.9	ug/L		10/31/20 09:19	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	800	J1 Q	46 - 136	10/28/20 23:38	10/31/20 09:19	200
1,1,2,2-Tetrachloroethane (2C)	532	J1 Q	46 - 136	10/28/20 23:38	10/31/20 09:19	200

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.4	J D	2.5	2.0	1.3	mg/L		11/06/20 16:28	5
Chloride	14	D	2.0	1.5	1.0	mg/L		11/06/20 16:28	5
Sulfate	1.8	J D	5.0	4.5	1.5	mg/L		11/06/20 16:28	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW153-484-204

Lab Sample ID: 410-18029-1

Date Collected: 10/21/20 10:35

Matrix: Water

Date Received: 10/22/20 10:41

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	130		0.20	0.15	0.096	mg/L		10/23/20 16:43	1
Magnesium	20		0.10	0.075	0.040	mg/L		10/23/20 16:43	1
Potassium	4.1		0.50	0.38	0.20	mg/L		10/23/20 16:43	1
Sodium	39		1.0	0.50	0.24	mg/L		10/26/20 07:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/27/20 16:09	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/27/20 16:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0039		0.0020	0.0016	0.00068	mg/L		10/23/20 18:35	1
Lead	0.00013	J	0.00050	0.00025	0.000071	mg/L		10/23/20 18:35	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	370		8.0	6.0	2.6	mg/L		10/27/20 01:16	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 01:16	1
Total Alkalinity as CaCO ₃ to pH 4.5	370		8.0	6.0	2.6	mg/L		10/27/20 01:16	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 12:12	1

Client Sample ID: GW024-204

Lab Sample ID: 410-18029-2

Date Collected: 10/21/20 13:21

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:06	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 16:06	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 16:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 16:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 16:06	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:06	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 16:06	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:06	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 16:06	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW024-204

Lab Sample ID: 410-18029-2

Date Collected: 10/21/20 13:21

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 16:06	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		11/03/20 16:06	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 16:06	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 16:06	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 16:06	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 16:06	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:06	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 16:06	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 16:06	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 16:06	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:06	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 16:06	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 16:06	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:06	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 16:06	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Vinyl acetate	2.0	U Q	10	2.0	0.70	ug/L		11/03/20 16:06	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:06	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118					11/03/20 16:06	1
4-Bromofluorobenzene (Surr)	99		85 - 114					11/03/20 16:06	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW024-204

Lab Sample ID: 410-18029-2

Date Collected: 10/21/20 13:21

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 16:06	1
Toluene-d8 (Surr)	102		89 - 112		11/03/20 16:06	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/29/20 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	101		46 - 136	10/28/20 23:38	10/29/20 18:48	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	10/28/20 23:38	10/29/20 18:48	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/06/20 17:40	5
Chloride	9.8	D	2.0	1.5	1.0	mg/L		11/06/20 17:40	5
Sulfate	30	D	5.0	4.5	1.5	mg/L		11/06/20 17:40	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	47		0.20	0.15	0.096	mg/L		10/23/20 16:47	1
Magnesium	7.7		0.10	0.075	0.040	mg/L		10/23/20 16:47	1
Potassium	2.8		0.50	0.38	0.20	mg/L		10/23/20 16:47	1
Sodium	24		1.0	0.50	0.24	mg/L		10/26/20 07:34	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/27/20 16:13	1
Manganese	0.0077	J	0.010	0.0052	0.0031	mg/L		10/27/20 16:13	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/23/20 18:37	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 18:37	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	160		8.0	6.0	2.6	mg/L		10/27/20 02:07	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 02:07	1
Total Alkalinity as CaCO ₃ to pH 4.5	160		8.0	6.0	2.6	mg/L		10/27/20 02:07	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 12:15	1

Client Sample ID: GWS1-447-204

Lab Sample ID: 410-18029-3

Date Collected: 10/21/20 09:50

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
1,1,1-Trichloroethane	50	U	100	50	30	ug/L		11/03/20 19:29	100
1,1,2,2-Tetrachloroethane	50	U M	100	50	20	ug/L		11/03/20 19:29	100
1,1,2-Trichloroethane	50	U	100	50	20	ug/L		11/03/20 19:29	100

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GWS1-447-204

Lab Sample ID: 410-18029-3

Date Collected: 10/21/20 09:50

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
1,1-Dichloroethene	50	U	100	50	20	ug/L		11/03/20 19:29	100
1,1-Dichloropropene	50	U	500	50	20	ug/L		11/03/20 19:29	100
1,2,3-Trichlorobenzene	100	U	500	100	40	ug/L		11/03/20 19:29	100
1,2,3-Trichloropropane	50	U	500	50	20	ug/L		11/03/20 19:29	100
1,2,4-Trichlorobenzene	100	U	500	100	30	ug/L		11/03/20 19:29	100
1,2,4-Trimethylbenzene	250	J D	500	200	100	ug/L		11/03/20 19:29	100
1,2-Dibromo-3-Chloropropane	100	U	500	100	30	ug/L		11/03/20 19:29	100
1,2-Dibromoethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
1,2-Dichlorobenzene	50	U	500	50	20	ug/L		11/03/20 19:29	100
1,2-Dichloroethane	50	U M	100	50	30	ug/L		11/03/20 19:29	100
1,2-Dichloropropane	50	U	100	50	20	ug/L		11/03/20 19:29	100
1,3,5-Trimethylbenzene	79	J D	500	100	30	ug/L		11/03/20 19:29	100
1,3-Dichlorobenzene	50	U	500	50	20	ug/L		11/03/20 19:29	100
1,3-Dichloropropane	50	U	100	50	20	ug/L		11/03/20 19:29	100
1,4-Dichlorobenzene	50	U	500	50	20	ug/L		11/03/20 19:29	100
2,2-Dichloropropane	50	U	100	50	30	ug/L		11/03/20 19:29	100
2-Butanone	1100	D	1000	100	30	ug/L		11/03/20 19:29	100
2-Chlorotoluene	50	U M	500	50	20	ug/L		11/03/20 19:29	100
2-Hexanone	1100	D	1000	100	30	ug/L		11/03/20 19:29	100
4-Chlorotoluene	50	U	500	50	20	ug/L		11/03/20 19:29	100
4-Methyl-2-pentanone	830	J D	1000	100	50	ug/L		11/03/20 19:29	100
Acetone	2000	D	2000	200	70	ug/L		11/03/20 19:29	100
Acrolein	500	U	10000	500	300	ug/L		11/03/20 19:29	100
Acrylonitrile	100	U	2000	100	30	ug/L		11/03/20 19:29	100
Benzene	1700	D	100	50	20	ug/L		11/03/20 19:29	100
Bromobenzene	50	U	500	50	20	ug/L		11/03/20 19:29	100
Bromochloromethane	50	U	500	50	20	ug/L		11/03/20 19:29	100
Bromodichloromethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
Bromoform	200	U	400	200	100	ug/L		11/03/20 19:29	100
Bromomethane	50	U	100	50	30	ug/L		11/03/20 19:29	100
Carbon disulfide	50	U	500	50	20	ug/L		11/03/20 19:29	100
Carbon tetrachloride	50	U	100	50	20	ug/L		11/03/20 19:29	100
Chlorobenzene	50	U	100	50	20	ug/L		11/03/20 19:29	100
Chloroethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
Chloroform	50	U	100	50	20	ug/L		11/03/20 19:29	100
Chloromethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
cis-1,2-Dichloroethene	50	U	100	50	20	ug/L		11/03/20 19:29	100
cis-1,3-Dichloropropene	50	U	100	50	20	ug/L		11/03/20 19:29	100
Dibromochloromethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
Dibromomethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
Dichlorodifluoromethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
Ethylbenzene	590	D	100	80	40	ug/L		11/03/20 19:29	100
Hexachlorobutadiene	400	U	500	400	200	ug/L		11/03/20 19:29	100
Isopropylbenzene	72	J D	500	50	20	ug/L		11/03/20 19:29	100
m&p-Xylene	1900	D	500	200	100	ug/L		11/03/20 19:29	100
Methyl tertiary butyl ether	50	U	100	50	20	ug/L		11/03/20 19:29	100
Methylene Chloride	50	U	100	50	30	ug/L		11/03/20 19:29	100
Naphthalene	150	J D	500	200	100	ug/L		11/03/20 19:29	100

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GWS1-447-204

Lab Sample ID: 410-18029-3

Date Collected: 10/21/20 09:50

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	50	U	500	50	20	ug/L		11/03/20 19:29	100
N-Propylbenzene	59	J D	500	50	20	ug/L		11/03/20 19:29	100
o-Xylene	1100	D	100	80	40	ug/L		11/03/20 19:29	100
p-Isopropyltoluene	290	J D	500	50	20	ug/L		11/03/20 19:29	100
sec-Butylbenzene	50	U	500	50	20	ug/L		11/03/20 19:29	100
Styrene	50	U M	500	50	20	ug/L		11/03/20 19:29	100
tert-Butylbenzene	100	U	500	100	30	ug/L		11/03/20 19:29	100
Tetrachloroethene	50	U	100	50	20	ug/L		11/03/20 19:29	100
Toluene	4000	D	100	50	20	ug/L		11/03/20 19:29	100
trans-1,2-Dichloroethene	50	U	100	50	20	ug/L		11/03/20 19:29	100
trans-1,3-Dichloropropene	50	U	100	50	20	ug/L		11/03/20 19:29	100
Trichloroethene	50	U	100	50	20	ug/L		11/03/20 19:29	100
Trichlorofluoromethane	50	U	100	50	20	ug/L		11/03/20 19:29	100
Vinyl acetate	200	U Q	1000	200	70	ug/L		11/03/20 19:29	100
Vinyl chloride	50	U	100	50	20	ug/L		11/03/20 19:29	100
Xylenes, Total	3000		600	200	140	ug/L		11/03/20 19:29	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/03/20 19:29	100
4-Bromofluorobenzene (Surr)	100		85 - 114		11/03/20 19:29	100
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 19:29	100
Toluene-d8 (Surr)	102		89 - 112		11/03/20 19:29	100

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	5.3	D M	1.4	0.96	0.48	ug/L		10/31/20 09:36	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	0	Q	46 - 136	10/28/20 23:38	10/31/20 09:36	50
1,1,2,2-Tetrachloroethane (2C)	0	Q	46 - 136	10/28/20 23:38	10/31/20 09:36	50

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	3.3	D	2.5	2.0	1.3	mg/L		11/06/20 18:16	5
Chloride	55	D	4.0	3.0	2.0	mg/L		11/06/20 18:34	10
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/06/20 18:16	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	200		0.20	0.15	0.096	mg/L		10/23/20 16:50	1
Magnesium	34		0.10	0.075	0.040	mg/L		10/23/20 16:50	1
Potassium	4.8		0.50	0.38	0.20	mg/L		10/23/20 16:50	1
Sodium	48		1.0	0.50	0.24	mg/L		10/26/20 07:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	3.2		0.21	0.10	0.041	mg/L		10/27/20 16:22	1
Manganese	7.1		0.010	0.0052	0.0031	mg/L		10/27/20 16:22	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GWS1-447-204

Lab Sample ID: 410-18029-3

Date Collected: 10/21/20 09:50

Matrix: Water

Date Received: 10/22/20 10:41

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0046		0.0020	0.0016	0.00068	mg/L		10/23/20 18:39	1
Lead	0.00027	J	0.00050	0.00025	0.000071	mg/L		10/23/20 18:39	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	560		8.0	6.0	2.6	mg/L		10/27/20 01:01	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 01:01	1
Total Alkalinity as CaCO ₃ to pH 4.5	560		8.0	6.0	2.6	mg/L		10/27/20 01:01	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 12:16	1

Client Sample ID: TB204-58

Lab Sample ID: 410-18029-4

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:25	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 14:25	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 14:25	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 14:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 14:25	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:25	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 14:25	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:25	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 14:25	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 14:25	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		11/03/20 14:25	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 14:25	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 14:25	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 14:25	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 14:25	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: TB204-58

Lab Sample ID: 410-18029-4

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:25	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 14:25	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 14:25	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 14:25	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:25	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 14:25	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 14:25	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:25	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 14:25	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Vinyl acetate	2.0	U Q	10	2.0	0.70	ug/L		11/03/20 14:25	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:25	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		11/03/20 14:25	1
4-Bromofluorobenzene (Surr)	98		85 - 114		11/03/20 14:25	1
Dibromofluoromethane (Surr)	98		80 - 119		11/03/20 14:25	1
Toluene-d8 (Surr)	102		89 - 112		11/03/20 14:25	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		10/29/20 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	91		46 - 136	10/28/20 23:38	10/29/20 19:22	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/28/20 23:38	10/29/20 19:22	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GWS8-451-204

Lab Sample ID: 410-18029-5

Date Collected: 10/21/20 11:20

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/03/20 16:47	5
1,1,2,2-Tetrachloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
1,1,2-Trichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
1,1-Dichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
1,1-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
1,1-Dichloropropene	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
1,2,3-Trichlorobenzene	5.0	U	25	5.0	2.0	ug/L		11/03/20 16:47	5
1,2,3-Trichloropropane	2.5	U M	25	2.5	1.0	ug/L		11/03/20 16:47	5
1,2,4-Trichlorobenzene	5.0	U	25	5.0	1.5	ug/L		11/03/20 16:47	5
1,2,4-Trimethylbenzene	6.0	J D	25	10	5.0	ug/L		11/03/20 16:47	5
1,2-Dibromo-3-Chloropropane	5.0	U M	25	5.0	1.5	ug/L		11/03/20 16:47	5
1,2-Dibromoethane	32	D	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
1,2-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
1,2-Dichloroethane	2.5	U M	5.0	2.5	1.5	ug/L		11/03/20 16:47	5
1,2-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
1,3,5-Trimethylbenzene	2.8	J D	25	5.0	1.5	ug/L		11/03/20 16:47	5
1,3-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
1,3-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
1,4-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
2,2-Dichloropropane	2.5	U	5.0	2.5	1.5	ug/L		11/03/20 16:47	5
2-Butanone	86	D	50	5.0	1.5	ug/L		11/03/20 16:47	5
2-Chlorotoluene	2.5	U M	25	2.5	1.0	ug/L		11/03/20 16:47	5
2-Hexanone	490	J1 D	50	5.0	1.5	ug/L		11/03/20 16:47	5
4-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
4-Methyl-2-pentanone	190	D	50	5.0	2.5	ug/L		11/03/20 16:47	5
Acetone	670	D	100	10	3.5	ug/L		11/03/20 16:47	5
Acrolein	25	U	500	25	15	ug/L		11/03/20 16:47	5
Acrylonitrile	5.0	U	100	5.0	1.5	ug/L		11/03/20 16:47	5
Benzene	770	J1 D	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Bromobenzene	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
Bromochloromethane	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
Bromodichloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Bromoform	10	U	20	10	5.0	ug/L		11/03/20 16:47	5
Bromomethane	2.5	U	5.0	2.5	1.5	ug/L		11/03/20 16:47	5
Carbon disulfide	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
Carbon tetrachloride	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Chlorobenzene	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Chloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Chloroform	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Chloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
cis-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Dibromochloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Dibromomethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Dichlorodifluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Ethylbenzene	15	D	5.0	4.0	2.0	ug/L		11/03/20 16:47	5
Hexachlorobutadiene	20	U	25	20	10	ug/L		11/03/20 16:47	5
Isopropylbenzene	200	J1 D	25	2.5	1.0	ug/L		11/03/20 16:47	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GWS8-451-204

Lab Sample ID: 410-18029-5

Date Collected: 10/21/20 11:20

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	75	D	25	10	5.0	ug/L		11/03/20 16:47	5
Methyl tertiary butyl ether	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Methylene Chloride	2.5	U	5.0	2.5	1.5	ug/L		11/03/20 16:47	5
Naphthalene	17	J D	25	10	5.0	ug/L		11/03/20 16:47	5
n-Butylbenzene	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
N-Propylbenzene	1.1	J D	25	2.5	1.0	ug/L		11/03/20 16:47	5
o-Xylene	51	J1 D	5.0	4.0	2.0	ug/L		11/03/20 16:47	5
p-Isopropyltoluene	30	D	25	2.5	1.0	ug/L		11/03/20 16:47	5
sec-Butylbenzene	2.5	U	25	2.5	1.0	ug/L		11/03/20 16:47	5
Styrene	2.5	U M	25	2.5	1.0	ug/L		11/03/20 16:47	5
tert-Butylbenzene	5.0	U	25	5.0	1.5	ug/L		11/03/20 16:47	5
Tetrachloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Toluene	390	J1 D	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Trichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Vinyl acetate	10	U Q	50	10	3.5	ug/L		11/03/20 16:47	5
Vinyl chloride	2.5	U	5.0	2.5	1.0	ug/L		11/03/20 16:47	5
Xylenes, Total	130		30	10	7.0	ug/L		11/03/20 16:47	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/03/20 16:47	5
4-Bromofluorobenzene (Surr)	106		85 - 114		11/03/20 16:47	5
Dibromofluoromethane (Surr)	96		80 - 119		11/03/20 16:47	5
Toluene-d8 (Surr)	102		89 - 112		11/03/20 16:47	5

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	28	D M J1	5.7	3.8	1.9	ug/L		10/31/20 09:53	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	618	Q	46 - 136	10/28/20 23:38	10/31/20 09:53	200
1,1,2,2-Tetrachloroethane (2C)	837	Q	46 - 136	10/28/20 23:38	10/31/20 09:53	200

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/06/20 18:52	5
Chloride	12	D	2.0	1.5	1.0	mg/L		11/06/20 18:52	5
Sulfate	4.5	J D	5.0	4.5	1.5	mg/L		11/06/20 18:52	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	110		0.20	0.15	0.096	mg/L		10/27/20 18:48	1
Magnesium	20		0.10	0.075	0.040	mg/L		10/27/20 18:48	1
Potassium	4.4		0.50	0.38	0.20	mg/L		10/28/20 09:53	1
Sodium	33		1.0	0.50	0.24	mg/L		10/27/20 18:48	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	6.0	J1	0.21	0.10	0.041	mg/L		01/15/21 05:25	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GWS8-451-204

Lab Sample ID: 410-18029-5

Date Collected: 10/21/20 11:20

Matrix: Water

Date Received: 10/22/20 10:41

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	2.2	J1	0.010	0.0052	0.0031	mg/L		01/15/21 05:25	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.010		0.0020	0.0016	0.00068	mg/L		10/26/20 19:36	1
Lead	0.00023	J	0.00050	0.00025	0.000071	mg/L		10/26/20 19:36	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	450		8.0	6.0	2.6	mg/L		10/27/20 01:09	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 01:09	1
Total Alkalinity as CaCO3 to pH 4.5	450		8.0	6.0	2.6	mg/L		10/27/20 01:09	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 12:18	1

Client Sample ID: TB204-59

Lab Sample ID: 410-18029-6

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:45	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 14:45	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 14:45	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 14:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 14:45	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:45	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 14:45	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:45	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 14:45	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 14:45	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 14:45	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 14:45	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 14:45	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 14:45	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: TB204-59

Lab Sample ID: 410-18029-6

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 14:45	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:45	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 14:45	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 14:45	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 14:45	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 14:45	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 14:45	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 14:45	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 14:45	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 14:45	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Vinyl acetate	2.0	U Q	10	2.0	0.70	ug/L		11/03/20 14:45	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 14:45	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		11/03/20 14:45	1
4-Bromofluorobenzene (Surr)	98		85 - 114		11/03/20 14:45	1
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 14:45	1
Toluene-d8 (Surr)	102		89 - 112		11/03/20 14:45	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/29/20 21:04	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: TB204-59

Lab Sample ID: 410-18029-6

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	98		46 - 136	10/28/20 23:38	10/29/20 21:04	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/28/20 23:38	10/29/20 21:04	1

Client Sample ID: GW152-484-204

Lab Sample ID: 410-18029-7

Date Collected: 10/21/20 12:40

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 19:49	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 19:49	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 19:49	1
1,2,4-Trimethylbenzene	20		5.0	2.0	1.0	ug/L		11/03/20 19:49	1
1,2-Dibromo-3-Chloropropane	1.0	U M	5.0	1.0	0.30	ug/L		11/03/20 19:49	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		11/03/20 19:49	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 19:49	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 19:49	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 19:49	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
2-Hexanone	1.7 J		10	1.0	0.30	ug/L		11/03/20 19:49	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
4-Methyl-2-pentanone	2.2 J		10	1.0	0.50	ug/L		11/03/20 19:49	1
Acetone	7.0 J		20	2.0	0.70	ug/L		11/03/20 19:49	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 19:49	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 19:49	1
Benzene	59		1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 19:49	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 19:49	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW152-484-204

Lab Sample ID: 410-18029-7

Date Collected: 10/21/20 12:40

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Ethylbenzene	18		1.0	0.80	0.40	ug/L		11/03/20 19:49	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 19:49	1
Isopropylbenzene	51		5.0	0.50	0.20	ug/L		11/03/20 19:49	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 19:49	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 19:49	1
Naphthalene	6.9		5.0	2.0	1.0	ug/L		11/03/20 19:49	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
N-Propylbenzene	4.2	J	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
o-Xylene	6.5		1.0	0.80	0.40	ug/L		11/03/20 19:49	1
p-Isopropyltoluene	7.8		5.0	0.50	0.20	ug/L		11/03/20 19:49	1
sec-Butylbenzene	2.4	J	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
Styrene	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 19:49	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 19:49	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Toluene	0.65	J	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Vinyl acetate	2.0	U Q	10	2.0	0.70	ug/L		11/03/20 19:49	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 19:49	1
Xylenes, Total	6.5		6.0	2.0	1.4	ug/L		11/03/20 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		11/03/20 19:49	1
4-Bromofluorobenzene (Surr)	100		85 - 114		11/03/20 19:49	1
Dibromofluoromethane (Surr)	96		80 - 119		11/03/20 19:49	1
Toluene-d8 (Surr)	102		89 - 112		11/03/20 19:49	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.029	0.019	0.0095	ug/L		10/29/20 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100	M	46 - 136	10/28/20 23:38	10/29/20 21:21	1
1,1,2,2-Tetrachloroethane (2C)	109	M	46 - 136	10/28/20 23:38	10/29/20 21:21	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/06/20 19:28	5
Chloride	77	D	8.0	6.0	4.0	mg/L		11/06/20 19:46	20
Sulfate	38	D	5.0	4.5	1.5	mg/L		11/06/20 19:28	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW152-484-204

Lab Sample ID: 410-18029-7

Date Collected: 10/21/20 12:40

Matrix: Water

Date Received: 10/22/20 10:41

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	160		0.20	0.15	0.096	mg/L		10/27/20 18:52	1
Magnesium	27		0.10	0.075	0.040	mg/L		10/27/20 18:52	1
Potassium	5.0		0.50	0.38	0.20	mg/L		10/28/20 09:56	1
Sodium	44		1.0	0.50	0.24	mg/L		10/27/20 18:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/27/20 16:25	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/27/20 16:25	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0048		0.0020	0.0016	0.00068	mg/L		10/23/20 18:40	1
Lead	0.00025	J	0.00050	0.00025	0.000071	mg/L		10/23/20 18:40	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	500		8.0	6.0	2.6	mg/L		10/27/20 01:31	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 01:31	1
Total Alkalinity as CaCO ₃ to pH 4.5	500		8.0	6.0	2.6	mg/L		10/27/20 01:31	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 12:21	1

Client Sample ID: GW151-484-204

Lab Sample ID: 410-18029-8

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 19:37	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 19:37	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 19:37	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 19:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 19:37	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 19:37	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 19:37	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 19:37	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		11/04/20 19:37	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW151-484-204

Lab Sample ID: 410-18029-8

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		11/04/20 19:37	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		11/04/20 19:37	1
Acetone	3.2	J	20	2.0	0.70	ug/L		11/04/20 19:37	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 19:37	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 19:37	1
Benzene	0.38	J M	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 19:37	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 19:37	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Chloroform	0.44	J	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 19:37	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 19:37	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 19:37	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 19:37	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 19:37	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 19:37	1
p-Isopropyltoluene	0.24	J	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 19:37	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 19:37	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 19:37	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 19:37	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/04/20 19:37	1
4-Bromofluorobenzene (Surr)	93		85 - 114		11/04/20 19:37	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW151-484-204

Lab Sample ID: 410-18029-8

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 119		11/04/20 19:37	1
Toluene-d8 (Surr)	100		89 - 112		11/04/20 19:37	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.030		0.028	0.019	0.0095	ug/L		10/29/20 21:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	103		46 - 136	10/28/20 23:38	10/29/20 21:38	1
1,1,2,2-Tetrachloroethane (2C)	99 M		46 - 136	10/28/20 23:38	10/29/20 21:38	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/06/20 20:04	5
Chloride	78	D	20	15	10	mg/L		11/06/20 20:22	50
Sulfate	330	D	50	45	15	mg/L		11/06/20 20:22	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	160		0.20	0.15	0.096	mg/L		10/27/20 18:55	1
Magnesium	25		0.10	0.075	0.040	mg/L		10/27/20 18:55	1
Potassium	4.1		0.50	0.38	0.20	mg/L		10/28/20 10:00	1
Sodium	40		1.0	0.50	0.24	mg/L		10/27/20 18:55	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/27/20 16:28	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/27/20 16:28	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/23/20 18:42	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 18:42	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	220		8.0	6.0	2.6	mg/L		10/27/20 01:37	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 01:37	1
Total Alkalinity as CaCO3 to pH 4.5	220		8.0	6.0	2.6	mg/L		10/27/20 01:37	1
Nitrate Nitrite as N	0.36		0.10	0.090	0.040	mg/L		11/17/20 12:22	1

Client Sample ID: GW151-484-604

Lab Sample ID: 410-18029-9

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:26	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW151-484-604

Lab Sample ID: 410-18029-9

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 16:26	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 16:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 16:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 16:26	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:26	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 16:26	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:26	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 16:26	1
2-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		11/03/20 16:26	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		11/03/20 16:26	1
Acetone	4.3	J	20	2.0	0.70	ug/L		11/03/20 16:26	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 16:26	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 16:26	1
Benzene	0.27	J	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 16:26	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:26	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Chloroform	0.42	J	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 16:26	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 16:26	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 16:26	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 16:26	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 16:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW151-484-604

Lab Sample ID: 410-18029-9

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 16:26	1
p-Isopropyltoluene	0.99	J	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 16:26	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 16:26	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Vinyl acetate	2.0	U Q	10	2.0	0.70	ug/L		11/03/20 16:26	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 16:26	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/03/20 16:26	1
4-Bromofluorobenzene (Surr)	98		85 - 114		11/03/20 16:26	1
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 16:26	1
Toluene-d8 (Surr)	103		89 - 112		11/03/20 16:26	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.030		0.029	0.019	0.0095	ug/L		10/29/20 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	105		46 - 136	10/28/20 23:38	10/29/20 21:55	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/28/20 23:38	10/29/20 21:55	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/06/20 22:47	5
Chloride	79	D	20	15	10	mg/L		11/06/20 22:28	50
Sulfate	310	D	50	45	15	mg/L		11/06/20 22:28	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	160		0.20	0.15	0.096	mg/L		10/27/20 18:58	1
Magnesium	25		0.10	0.075	0.040	mg/L		10/27/20 18:58	1
Potassium	4.1		0.50	0.38	0.20	mg/L		10/28/20 10:09	1
Sodium	40		1.0	0.50	0.24	mg/L		10/27/20 18:58	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/27/20 16:32	1
Manganese	0.19		0.010	0.0052	0.0031	mg/L		10/27/20 16:32	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW151-484-604

Lab Sample ID: 410-18029-9

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/23/20 18:51	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 18:51	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	200		8.0	6.0	2.6	mg/L		10/27/20 01:53	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 01:53	1
Total Alkalinity as CaCO ₃ to pH 4.5	200		8.0	6.0	2.6	mg/L		10/27/20 01:53	1
Nitrate Nitrite as N	0.40		0.10	0.090	0.040	mg/L		11/17/20 12:23	1

Client Sample ID: TB204-57

Lab Sample ID: 410-18029-10

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:05	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 15:05	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:05	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 15:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:05	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:05	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:05	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:05	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 15:05	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 15:05	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 15:05	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 15:05	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 15:05	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 15:05	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 15:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: TB204-57

Lab Sample ID: 410-18029-10

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:05	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 15:05	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 15:05	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 15:05	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:05	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 15:05	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 15:05	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:05	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:05	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Vinyl acetate	2.0	U Q	10	2.0	0.70	ug/L		11/03/20 15:05	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:05	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/03/20 15:05	1
4-Bromofluorobenzene (Surr)	98		85 - 114		11/03/20 15:05	1
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 15:05	1
Toluene-d8 (Surr)	103		89 - 112		11/03/20 15:05	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/29/20 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	88		46 - 136	10/28/20 23:38	10/29/20 22:12	1
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	10/28/20 23:38	10/29/20 22:12	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW060-204

Lab Sample ID: 410-18029-11

Date Collected: 10/20/20 14:56

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:26	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 15:26	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 15:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:26	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:26	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:26	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:26	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 15:26	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 15:26	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		11/03/20 15:26	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 15:26	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 15:26	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 15:26	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 15:26	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:26	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 15:26	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 15:26	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW060-204

Lab Sample ID: 410-18029-11

Date Collected: 10/20/20 14:56

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 15:26	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:26	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 15:26	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 15:26	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:26	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:26	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Vinyl acetate	2.0	U Q	10	2.0	0.70	ug/L		11/03/20 15:26	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:26	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		11/03/20 15:26	1
4-Bromofluorobenzene (Surr)	99		85 - 114		11/03/20 15:26	1
Dibromofluoromethane (Surr)	98		80 - 119		11/03/20 15:26	1
Toluene-d8 (Surr)	103		89 - 112		11/03/20 15:26	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/29/20 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	98		46 - 136	10/28/20 23:38	10/29/20 22:29	1
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136	10/28/20 23:38	10/29/20 22:29	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/06/20 23:23	5
Chloride	19	D	2.0	1.5	1.0	mg/L		11/06/20 23:23	5
Sulfate	41	D	5.0	4.5	1.5	mg/L		11/06/20 23:23	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	66		0.20	0.15	0.096	mg/L		10/27/20 19:14	1
Magnesium	9.8		0.10	0.075	0.040	mg/L		10/27/20 19:14	1
Potassium	3.0		0.50	0.38	0.20	mg/L		10/28/20 10:18	1
Sodium	30		1.0	0.50	0.24	mg/L		10/28/20 10:18	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/27/20 16:35	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW060-204

Lab Sample ID: 410-18029-11

Date Collected: 10/20/20 14:56

Matrix: Water

Date Received: 10/22/20 10:41

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L	—	10/27/20 16:35	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L	—	10/23/20 18:52	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L	—	10/23/20 18:52	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	220		8.0	6.0	2.6	mg/L	—	10/27/20 02:00	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L	—	10/27/20 02:00	1
Total Alkalinity as CaCO ₃ to pH 4.5	220		8.0	6.0	2.6	mg/L	—	10/27/20 02:00	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L	—	11/17/20 12:25	1

Client Sample ID: GW002-204

Lab Sample ID: 410-18029-12

Date Collected: 10/20/20 13:56

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	11/03/20 15:46	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L	—	11/03/20 15:46	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L	—	11/03/20 15:46	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L	—	11/03/20 15:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L	—	11/03/20 15:46	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L	—	11/03/20 15:46	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	11/03/20 15:46	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L	—	11/03/20 15:46	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L	—	11/03/20 15:46	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L	—	11/03/20 15:46	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L	—	11/03/20 15:46	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L	—	11/03/20 15:46	1
Acetone	2.0	U	20	2.0	0.70	ug/L	—	11/03/20 15:46	1
Acrolein	5.0	U	100	5.0	3.0	ug/L	—	11/03/20 15:46	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L	—	11/03/20 15:46	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L	—	11/03/20 15:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW002-204

Lab Sample ID: 410-18029-12

Date Collected: 10/20/20 13:56

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 15:46	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:46	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 15:46	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 15:46	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 15:46	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 15:46	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 15:46	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 15:46	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 15:46	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 15:46	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Vinyl acetate	2.0	U Q	10	2.0	0.70	ug/L		11/03/20 15:46	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 15:46	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/03/20 15:46	1
4-Bromofluorobenzene (Surr)	97		85 - 114		11/03/20 15:46	1
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 15:46	1
Toluene-d8 (Surr)	102		89 - 112		11/03/20 15:46	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		10/29/20 22:46	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW002-204

Lab Sample ID: 410-18029-12

Date Collected: 10/20/20 13:56

Matrix: Water

Date Received: 10/22/20 10:41

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136	10/28/20 23:38	10/29/20 22:46	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/28/20 23:38	10/29/20 22:46	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/06/20 23:59	5
Chloride	32	D	4.0	3.0	2.0	mg/L		11/06/20 23:41	10
Sulfate	44	D	5.0	4.5	1.5	mg/L		11/06/20 23:59	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	49		0.20	0.15	0.096	mg/L		10/27/20 19:02	1
Magnesium	7.1		0.10	0.075	0.040	mg/L		10/27/20 19:02	1
Potassium	2.5		0.50	0.38	0.20	mg/L		10/28/20 10:12	1
Sodium	23		1.0	0.50	0.24	mg/L		10/27/20 19:02	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/27/20 16:38	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/27/20 16:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00087	J	0.0020	0.0016	0.00068	mg/L		10/23/20 18:45	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 18:45	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	2.6	mg/L		10/27/20 02:13	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 02:13	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	2.6	mg/L		10/27/20 02:13	1
Nitrate Nitrite as N	1.5		0.10	0.090	0.040	mg/L		11/17/20 12:26	1

Client Sample ID: GW149-484-204

Lab Sample ID: 410-18029-13

Date Collected: 10/21/20 08:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 02:25	5
1,1,2,2-Tetrachloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
1,1,2-Trichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
1,1-Dichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
1,1-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
1,1-Dichloropropene	2.5	U	25	2.5	1.0	ug/L		11/04/20 02:25	5
1,2,3-Trichlorobenzene	5.0	U	25	5.0	2.0	ug/L		11/04/20 02:25	5
1,2,3-Trichloropropane	2.5	U M	25	2.5	1.0	ug/L		11/04/20 02:25	5
1,2,4-Trichlorobenzene	5.0	U	25	5.0	1.5	ug/L		11/04/20 02:25	5
1,2,4-Trimethylbenzene	310	D	25	10	5.0	ug/L		11/04/20 02:25	5
1,2-Dibromo-3-Chloropropane	5.0	U M	25	5.0	1.5	ug/L		11/04/20 02:25	5
1,2-Dibromoethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 02:25	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW149-484-204

Lab Sample ID: 410-18029-13

Date Collected: 10/21/20 08:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 02:25	5
1,2-Dichloroethane	2.5	U M	5.0	2.5	1.5	ug/L		11/04/20 02:25	5
1,2-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
1,3,5-Trimethylbenzene	100	D	25	5.0	1.5	ug/L		11/04/20 02:25	5
1,3-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 02:25	5
1,3-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
1,4-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 02:25	5
2,2-Dichloropropane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 02:25	5
2-Butanone	25	J D	50	5.0	1.5	ug/L		11/04/20 02:25	5
2-Chlorotoluene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 02:25	5
2-Hexanone	71	D	50	5.0	1.5	ug/L		11/04/20 02:25	5
4-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/04/20 02:25	5
4-Methyl-2-pentanone	28	J D	50	5.0	2.5	ug/L		11/04/20 02:25	5
Acetone	86	J D	100	10	3.5	ug/L		11/04/20 02:25	5
Acrolein	25	U	500	25	15	ug/L		11/04/20 02:25	5
Acrylonitrile	5.0	U	100	5.0	1.5	ug/L		11/04/20 02:25	5
Benzene	1500	D	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Bromobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 02:25	5
Bromochloromethane	2.5	U	25	2.5	1.0	ug/L		11/04/20 02:25	5
Bromodichloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Bromoform	10	U	20	10	5.0	ug/L		11/04/20 02:25	5
Bromomethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 02:25	5
Carbon disulfide	2.5	U	25	2.5	1.0	ug/L		11/04/20 02:25	5
Carbon tetrachloride	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Chlorobenzene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Chloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Chloroform	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Chloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
cis-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Dibromochloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Dibromomethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Dichlorodifluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Ethylbenzene	390	D	5.0	4.0	2.0	ug/L		11/04/20 02:25	5
Hexachlorobutadiene	20	U	25	20	10	ug/L		11/04/20 02:25	5
Isopropylbenzene	44	D	25	2.5	1.0	ug/L		11/04/20 02:25	5
m&p-Xylene	1400	D	25	10	5.0	ug/L		11/04/20 02:25	5
Methyl tertiary butyl ether	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
Methylene Chloride	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 02:25	5
Naphthalene	140	D	25	10	5.0	ug/L		11/04/20 02:25	5
n-Butylbenzene	8.5	J D	25	2.5	1.0	ug/L		11/04/20 02:25	5
N-Propylbenzene	53	D	25	2.5	1.0	ug/L		11/04/20 02:25	5
o-Xylene	760	D	5.0	4.0	2.0	ug/L		11/04/20 02:25	5
p-Isopropyltoluene	10	J D	25	2.5	1.0	ug/L		11/04/20 02:25	5
sec-Butylbenzene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 02:25	5
Styrene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 02:25	5
tert-Butylbenzene	5.0	U M	25	5.0	1.5	ug/L		11/04/20 02:25	5
Tetrachloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 02:25	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW149-484-204

Lab Sample ID: 410-18029-13

Date Collected: 10/21/20 08:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L	—	11/04/20 02:25	5
Trichloroethene	2.5	U	5.0	2.5	1.0	ug/L	—	11/04/20 02:25	5
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L	—	11/04/20 02:25	5
Vinyl acetate	10	U	50	10	3.5	ug/L	—	11/04/20 02:25	5
Vinyl chloride	2.5	U	5.0	2.5	1.0	ug/L	—	11/04/20 02:25	5
Xylenes, Total	2200		30	10	7.0	ug/L	—	11/04/20 02:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 02:25	5
4-Bromofluorobenzene (Surr)	102		85 - 114		11/04/20 02:25	5
Dibromofluoromethane (Surr)	96		80 - 119		11/04/20 02:25	5
Toluene-d8 (Surr)	98		89 - 112		11/04/20 02:25	5

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Toluene	3900	D	50	25	10	ug/L	—	11/04/20 02:46	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 02:46	50
4-Bromofluorobenzene (Surr)	94		85 - 114		11/04/20 02:46	50
Dibromofluoromethane (Surr)	96		80 - 119		11/04/20 02:46	50
Toluene-d8 (Surr)	99		89 - 112		11/04/20 02:46	50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	17	D M	5.8	3.8	1.9	ug/L	—	10/31/20 10:44	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	645	Q	46 - 136	10/28/20 23:38	10/31/20 10:44	200
1,1,2,2-Tetrachloroethane (2C)	687	Q	46 - 136	10/28/20 23:38	10/31/20 10:44	200

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	11/07/20 01:11	5
Chloride	13	D	2.0	1.5	1.0	mg/L	—	11/07/20 01:11	5
Sulfate	4.5	U	5.0	4.5	1.5	mg/L	—	11/07/20 01:11	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	93		0.20	0.15	0.096	mg/L	—	10/27/20 19:05	1
Magnesium	15		0.10	0.075	0.040	mg/L	—	10/27/20 19:05	1
Potassium	3.4		0.50	0.38	0.20	mg/L	—	10/28/20 10:15	1
Sodium	32		1.0	0.50	0.24	mg/L	—	10/27/20 19:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L	—	10/27/20 16:41	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L	—	10/27/20 16:41	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0038		0.0020	0.0016	0.00068	mg/L	—	10/23/20 18:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW149-484-204

Lab Sample ID: 410-18029-13

Date Collected: 10/21/20 08:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Lead	0.00057		0.00050	0.00025	0.000071	mg/L		10/23/20 18:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	320		8.0	6.0	2.6	mg/L		10/27/20 01:23	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 01:23	1
Total Alkalinity as CaCO ₃ to pH 4.5	320		8.0	6.0	2.6	mg/L		10/27/20 01:23	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 12:29	1

Client Sample ID: TB204-56

Lab Sample ID: 410-18029-14

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:43	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 21:43	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:43	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:43	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:43	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:43	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:43	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 21:43	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 21:43	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 21:43	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 21:43	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 21:43	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 21:43	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 21:43	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:43	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: TB204-56

Lab Sample ID: 410-18029-14

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 21:43	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 21:43	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:43	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:43	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:43	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 21:43	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:43	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:43	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 21:43	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:43	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/03/20 21:43	1
4-Bromofluorobenzene (Surr)	92		85 - 114		11/03/20 21:43	1
Dibromofluoromethane (Surr)	98		80 - 119		11/03/20 21:43	1
Toluene-d8 (Surr)	98		89 - 112		11/03/20 21:43	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		10/29/20 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/28/20 23:38	10/29/20 23:20	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/28/20 23:38	10/29/20 23:20	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-18029-1	GW153-484-204	100	105	95	103
410-18029-1 - DL	GW153-484-204	100	99	97	103
410-18029-2	GW024-204	104	99	97	102
410-18029-3	GWS1-447-204	102	100	97	102
410-18029-4	TB204-58	103	98	98	102
410-18029-5	GWS8-451-204	102	106	96	102
410-18029-5 MS	GWS8-451-204	101	102	98	102
410-18029-5 MS	GWS8-451-204	101	107	97	101
410-18029-5 MSD	GWS8-451-204	100	99	97	103
410-18029-5 MSD	GWS8-451-204	100	99	97	102
410-18029-6	TB204-59	103	98	97	102
410-18029-7	GW152-484-204	101	100	96	102
410-18029-8	GW151-484-204	98	93	95	100
410-18029-9	GW151-484-604	102	98	97	103
410-18029-10	TB204-57	102	98	97	103
410-18029-11	GW060-204	103	99	98	103
410-18029-12	GW002-204	102	97	97	102
410-18029-13	GW149-484-204	100	102	96	98
410-18029-13 - DL	GW149-484-204	100	94	96	99
410-18029-14	TB204-56	102	92	98	98
LCS 410-61497/5	Lab Control Sample	102	99	99	103
LCS 410-61497/7	Lab Control Sample	101	98	98	101
LCS 410-61753/5	Lab Control Sample	100	94	97	100
LCS 410-61753/7	Lab Control Sample	98	91	97	99
LCS 410-61889/6	Lab Control Sample	99	95	95	100
LCS 410-61889/9	Lab Control Sample	100	92	94	99
LCSD 410-61497/6	Lab Control Sample Dup	101	98	99	102
LCSD 410-61497/8	Lab Control Sample Dup	101	99	98	103
LCSD 410-61753/6	Lab Control Sample Dup	100	94	97	101
LCSD 410-61753/8	Lab Control Sample Dup	100	91	97	99
LCSD 410-61889/10	Lab Control Sample Dup	101	92	95	100
LCSD 410-61889/8	Lab Control Sample Dup	101	95	95	100
MB 410-61497/11	Method Blank	103	98	97	101
MB 410-61753/10	Method Blank	100	91	97	98
MB 410-61889/12	Method Blank	102	92	97	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-18029-1	GW153-484-204	800 J1 Q	532 J1 Q
410-18029-2	GW024-204	101	101

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-18029-3	GWS1-447-204	0 Q	0 Q
410-18029-4	TB204-58	91	97
410-18029-5	GWS8-451-204	618 Q	837 Q
410-18029-5 MS	GWS8-451-204	829 J1 Q	172 J1 Q
410-18029-5 MSD	GWS8-451-204	734 Q	974 Q
410-18029-6	TB204-59	98	99
410-18029-7	GW152-484-204	100 M	109 M
410-18029-8	GW151-484-204	103	99 M
410-18029-9	GW151-484-604	105	98
410-18029-10	TB204-57	88	91
410-18029-11	GW060-204	98	97
410-18029-12	GW002-204	100	99
410-18029-13	GW149-484-204	645 Q	687 Q
410-18029-14	TB204-56	97	99
LCS 410-59749/2-A	Lab Control Sample	98	99
LCSD 410-59749/3-A	Lab Control Sample Dup	101	102
MB 410-59749/1-A	Method Blank	96	97

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-61497/11

Matrix: Water

Analysis Batch: 61497

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 13:25	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 13:25	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 13:25	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 13:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 13:25	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 13:25	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 13:25	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 13:25	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 13:25	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 13:25	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 13:25	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 13:25	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 13:25	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 13:25	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 13:25	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 13:25	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 13:25	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 13:25	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61497/11

Matrix: Water

Analysis Batch: 61497

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 13:25	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 13:25	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 13:25	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 13:25	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 13:25	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 13:25	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 13:25	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 13:25	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 13:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		11/03/20 13:25	1
4-Bromofluorobenzene (Surr)	98		85 - 114		11/03/20 13:25	1
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 13:25	1
Toluene-d8 (Surr)	101		89 - 112		11/03/20 13:25	1

Lab Sample ID: LCS 410-61497/5

Matrix: Water

Analysis Batch: 61497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.7		ug/L		104	78 - 124
1,1,1-Trichloroethane	20.0	20.5		ug/L		102	74 - 131
1,1,2,2-Tetrachloroethane	20.0	21.8		ug/L		109	71 - 121
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	80 - 119
1,1-Dichloroethane	20.0	20.7		ug/L		103	77 - 125
1,1-Dichloroethene	20.0	21.0		ug/L		105	71 - 131
1,1-Dichloropropene	20.0	20.7		ug/L		104	79 - 125
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	69 - 129
1,2,3-Trichloropropane	20.0	21.4		ug/L		107	73 - 122
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	69 - 130
1,2,4-Trimethylbenzene	20.0	21.0		ug/L		105	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/L		104	62 - 128
1,2-Dibromoethane	20.0	20.8		ug/L		104	77 - 121
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 119
1,2-Dichloroethane	20.0	20.1		ug/L		100	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61497/5

Matrix: Water

Analysis Batch: 61497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	21.1		ug/L		105	78 - 122
1,3,5-Trimethylbenzene	20.0	21.4		ug/L		107	75 - 124
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119
1,3-Dichloropropane	20.0	20.6		ug/L		103	80 - 119
1,4-Dichlorobenzene	20.0	20.9		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	20.8		ug/L		104	60 - 139
2-Butanone	150	152		ug/L		101	56 - 143
2-Chlorotoluene	20.0	21.2		ug/L		106	79 - 122
2-Hexanone	100	111		ug/L		111	57 - 139
4-Chlorotoluene	20.0	21.3		ug/L		106	78 - 122
4-Methyl-2-pentanone	100	106		ug/L		106	67 - 130
Acetone	150	164		ug/L		109	39 - 160
Acrolein	150	169		ug/L		112	39 - 155
Acrylonitrile	100	100		ug/L		100	63 - 135
Benzene	20.0	20.4		ug/L		102	42 - 138
Bromobenzene	20.0	21.1		ug/L		106	80 - 120
Bromochloromethane	20.0	19.7		ug/L		99	78 - 123
Bromodichloromethane	20.0	20.3		ug/L		102	79 - 125
Bromoform	20.0	20.4		ug/L		102	66 - 130
Bromomethane	20.0	18.6		ug/L		93	53 - 141
Carbon disulfide	20.0	20.3		ug/L		102	64 - 133
Carbon tetrachloride	20.0	20.7		ug/L		104	72 - 136
Chlorobenzene	20.0	21.0		ug/L		105	82 - 118
Chloroethane	20.0	18.5		ug/L		93	60 - 138
Chloroform	20.0	20.6		ug/L		103	79 - 124
Chloromethane	20.0	18.5		ug/L		92	50 - 139
cis-1,2-Dichloroethene	20.0	21.1		ug/L		105	78 - 123
cis-1,3-Dichloropropene	20.0	20.1		ug/L		100	75 - 124
Dibromochloromethane	20.0	21.1		ug/L		106	74 - 126
Dibromomethane	20.0	20.5		ug/L		102	79 - 123
Dichlorodifluoromethane	20.0	15.9		ug/L		80	32 - 152
Ethylbenzene	20.0	20.9		ug/L		104	79 - 121
Hexachlorobutadiene	20.0	19.5		ug/L		97	66 - 134
Isopropylbenzene	20.0	21.2		ug/L		106	72 - 131
m&p-Xylene	40.0	42.5		ug/L		106	80 - 121
Methyl tertiary butyl ether	20.0	19.6		ug/L		98	71 - 124
Methylene Chloride	20.0	21.2		ug/L		106	74 - 124
Naphthalene	20.0	19.8		ug/L		99	61 - 128
n-Butylbenzene	20.0	20.8		ug/L		104	75 - 128
N-Propylbenzene	20.0	22.1		ug/L		110	76 - 126
o-Xylene	20.0	20.9		ug/L		104	78 - 122
p-Isopropyltoluene	20.0	21.4		ug/L		107	77 - 127
sec-Butylbenzene	20.0	21.5		ug/L		108	77 - 126
Styrene	20.0	20.8		ug/L		104	78 - 123
tert-Butylbenzene	20.0	21.4		ug/L		107	78 - 124
Tetrachloroethene	20.0	19.1		ug/L		96	74 - 129
Toluene	20.0	21.1		ug/L		106	80 - 121
trans-1,2-Dichloroethene	20.0	20.7		ug/L		104	75 - 124
trans-1,3-Dichloropropene	20.0	20.4		ug/L		102	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61497/5

Matrix: Water

Analysis Batch: 61497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.3		ug/L		101	79 - 123
Trichlorofluoromethane	20.0	18.4		ug/L		92	65 - 141
Vinyl chloride	20.0	19.1		ug/L		96	58 - 137
Xylenes, Total	60.0	63.4		ug/L		106	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: LCS 410-61497/7

Matrix: Water

Analysis Batch: 61497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	81.7		ug/L		82	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	98		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	101		89 - 112

Lab Sample ID: LCSD 410-61497/6

Matrix: Water

Analysis Batch: 61497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	78 - 124	1	20
1,1,1-Trichloroethane	20.0	20.3		ug/L		101	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	71 - 121	2	20
1,1,2-Trichloroethane	20.0	21.7		ug/L		109	80 - 119	1	20
1,1-Dichloroethane	20.0	20.4		ug/L		102	77 - 125	2	20
1,1-Dichloroethene	20.0	20.8		ug/L		104	71 - 131	1	20
1,1-Dichloropropene	20.0	20.3		ug/L		101	79 - 125	2	20
1,2,3-Trichlorobenzene	20.0	20.1		ug/L		100	69 - 129	1	20
1,2,3-Trichloropropane	20.0	21.6		ug/L		108	73 - 122	1	20
1,2,4-Trichlorobenzene	20.0	20.3		ug/L		101	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	21.1		ug/L		105	76 - 124	0	20
1,2-Dibromo-3-Chloropropane	20.0	20.2		ug/L		101	62 - 128	3	20
1,2-Dibromoethane	20.0	20.8		ug/L		104	77 - 121	0	20
1,2-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 119	0	20
1,2-Dichloroethane	20.0	20.1		ug/L		101	73 - 128	0	20
1,2-Dichloropropane	20.0	20.5		ug/L		103	78 - 122	3	20
1,3,5-Trimethylbenzene	20.0	21.3		ug/L		107	75 - 124	0	20
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	80 - 119	0	20
1,3-Dichloropropane	20.0	20.8		ug/L		104	80 - 119	1	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61497/6

Matrix: Water

Analysis Batch: 61497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	79 - 118	0	20
2,2-Dichloropropane	20.0	20.5		ug/L		103	60 - 139	1	20
2-Butanone	150	148		ug/L		98	56 - 143	3	20
2-Chlorotoluene	20.0	21.3		ug/L		106	79 - 122	0	20
2-Hexanone	100	108		ug/L		108	57 - 139	3	20
4-Chlorotoluene	20.0	21.3		ug/L		107	78 - 122	0	20
4-Methyl-2-pentanone	100	103		ug/L		103	67 - 130	3	20
Acetone	150	164		ug/L		109	39 - 160	0	20
Acrolein	150	173		ug/L		116	39 - 155	3	20
Acrylonitrile	100	98.5		ug/L		99	63 - 135	2	20
Benzene	20.0	20.2		ug/L		101	42 - 138	1	20
Bromobenzene	20.0	20.9		ug/L		104	80 - 120	1	20
Bromochloromethane	20.0	19.3		ug/L		97	78 - 123	2	20
Bromodichloromethane	20.0	20.4		ug/L		102	79 - 125	0	20
Bromoform	20.0	20.7		ug/L		104	66 - 130	2	20
Bromomethane	20.0	18.8		ug/L		94	53 - 141	1	20
Carbon disulfide	20.0	20.1		ug/L		100	64 - 133	1	20
Carbon tetrachloride	20.0	20.7		ug/L		104	72 - 136	0	20
Chlorobenzene	20.0	20.5		ug/L		103	82 - 118	2	20
Chloroethane	20.0	18.4		ug/L		92	60 - 138	1	20
Chloroform	20.0	20.5		ug/L		103	79 - 124	0	20
Chloromethane	20.0	17.8		ug/L		89	50 - 139	4	20
cis-1,2-Dichloroethene	20.0	21.1		ug/L		105	78 - 123	0	20
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	75 - 124	1	20
Dibromochloromethane	20.0	21.0		ug/L		105	74 - 126	1	20
Dibromomethane	20.0	20.4		ug/L		102	79 - 123	0	20
Dichlorodifluoromethane	20.0	14.8		ug/L		74	32 - 152	7	20
Ethylbenzene	20.0	20.7		ug/L		103	79 - 121	1	20
Hexachlorobutadiene	20.0	19.9		ug/L		100	66 - 134	2	20
Isopropylbenzene	20.0	21.1		ug/L		105	72 - 131	1	20
m&p-Xylene	40.0	42.0		ug/L		105	80 - 121	1	20
Methyl tertiary butyl ether	20.0	19.7		ug/L		99	71 - 124	1	20
Methylene Chloride	20.0	21.2		ug/L		106	74 - 124	0	20
Naphthalene	20.0	19.9		ug/L		99	61 - 128	0	20
n-Butylbenzene	20.0	20.6		ug/L		103	75 - 128	1	20
N-Propylbenzene	20.0	21.9		ug/L		110	76 - 126	1	20
o-Xylene	20.0	20.8		ug/L		104	78 - 122	0	20
p-Isopropyltoluene	20.0	21.4		ug/L		107	77 - 127	0	20
sec-Butylbenzene	20.0	21.3		ug/L		106	77 - 126	1	20
Styrene	20.0	20.8		ug/L		104	78 - 123	0	20
tert-Butylbenzene	20.0	21.4		ug/L		107	78 - 124	0	20
Tetrachloroethene	20.0	19.3		ug/L		97	74 - 129	1	20
Toluene	20.0	20.8		ug/L		104	80 - 121	2	20
trans-1,2-Dichloroethene	20.0	20.7		ug/L		103	75 - 124	0	20
trans-1,3-Dichloropropene	20.0	20.3		ug/L		101	73 - 127	1	20
Trichloroethene	20.0	20.0		ug/L		100	79 - 123	1	20
Trichlorofluoromethane	20.0	18.2		ug/L		91	65 - 141	1	20
Vinyl chloride	20.0	19.2		ug/L		96	58 - 137	1	20
Xylenes, Total	60.0	62.8		ug/L		105	79 - 121	1	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	98		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: LCSD 410-61497/8
Matrix: Water
Analysis Batch: 61497

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	93.9		ug/L		94	54 - 146	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-18029-5 MS
Matrix: Water
Analysis Batch: 61497

Client Sample ID: GWS8-451-204
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2.5	U	100	112	D	ug/L		112	78 - 124
1,1,1-Trichloroethane	2.5	U	100	115	D	ug/L		115	74 - 131
1,1,2,2-Tetrachloroethane	2.5	U M	100	106	D	ug/L		106	71 - 121
1,1,2-Trichloroethane	2.5	U	100	114	D	ug/L		114	80 - 119
1,1-Dichloroethane	2.5	U	100	113	D	ug/L		113	77 - 125
1,1-Dichloroethene	2.5	U	100	123	D	ug/L		123	71 - 131
1,1-Dichloropropene	2.5	U	100	117	D	ug/L		117	79 - 125
1,2,3-Trichlorobenzene	5.0	U	100	108	D	ug/L		108	69 - 129
1,2,3-Trichloropropane	2.5	U M	100	113	D	ug/L		113	73 - 122
1,2,4-Trichlorobenzene	5.0	U	100	113	D	ug/L		113	69 - 130
1,2,4-Trimethylbenzene	6.0	J D	100	117	D	ug/L		111	76 - 124
1,2-Dibromo-3-Chloropropane	5.0	U M	100	108	D	ug/L		108	62 - 128
1,2-Dibromoethane	32	D	100	130	D	ug/L		97	77 - 121
1,2-Dichlorobenzene	2.5	U	100	112	D	ug/L		112	80 - 119
1,2-Dichloroethane	2.5	U M	100	112	D	ug/L		112	73 - 128
1,2-Dichloropropane	2.5	U	100	111	D	ug/L		111	78 - 122
1,3,5-Trimethylbenzene	2.8	J D	100	120	D	ug/L		117	75 - 124
1,3-Dichlorobenzene	2.5	U	100	113	D	ug/L		113	80 - 119
1,3-Dichloropropane	2.5	U	100	108	D	ug/L		108	80 - 119
1,4-Dichlorobenzene	2.5	U	100	113	D	ug/L		113	79 - 118
2,2-Dichloropropane	2.5	U	100	114	D	ug/L		114	60 - 139
2-Butanone	86	D	750	819	D	ug/L		98	56 - 143
2-Chlorotoluene	2.5	U M	100	120	D	ug/L		120	79 - 122
2-Hexanone	490	J1 D	500	790	D	ug/L		59	57 - 139
4-Chlorotoluene	2.5	U	100	117	D	ug/L		117	78 - 122
4-Methyl-2-pentanone	190	D	500	627	D	ug/L		88	67 - 130
Acetone	670	D	750	1190	D	ug/L		69	39 - 160
Acrolein	25	U	750	851	D	ug/L		113	39 - 155

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-18029-5 MS

Client Sample ID: GWS8-451-204

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 61497

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrylonitrile	5.0	U	500	500	D	ug/L		100	63 - 135
Benzene	770	J1 D	100	399	4 D	ug/L		-374	42 - 138
Bromobenzene	2.5	U	100	115	D	ug/L		115	80 - 120
Bromochloromethane	2.5	U	100	102	D	ug/L		102	78 - 123
Bromodichloromethane	2.5	U	100	108	D	ug/L		108	79 - 125
Bromoform	10	U	100	106	D	ug/L		106	66 - 130
Bromomethane	2.5	U	100	102	D	ug/L		102	53 - 141
Carbon disulfide	2.5	U	100	114	D	ug/L		114	64 - 133
Carbon tetrachloride	2.5	U	100	118	D	ug/L		118	72 - 136
Chlorobenzene	2.5	U	100	114	D	ug/L		114	82 - 118
Chloroethane	2.5	U	100	102	D	ug/L		102	60 - 138
Chloroform	2.5	U	100	111	D	ug/L		111	79 - 124
Chloromethane	2.5	U	100	98.9	D	ug/L		99	50 - 139
cis-1,2-Dichloroethene	2.5	U	100	115	D	ug/L		115	78 - 123
cis-1,3-Dichloropropene	2.5	U	100	104	D	ug/L		104	75 - 124
Dibromochloromethane	2.5	U	100	108	D	ug/L		108	74 - 126
Dibromomethane	2.5	U	100	105	D	ug/L		105	79 - 123
Dichlorodifluoromethane	2.5	U	100	96.3	D	ug/L		96	32 - 152
Ethylbenzene	15	D	100	121	D	ug/L		105	79 - 121
Hexachlorobutadiene	20	U	100	117	D	ug/L		117	66 - 134
Isopropylbenzene	200	J1 D	100	179	J1 D	ug/L		-23	72 - 131
m&p-Xylene	75	D	200	257	D	ug/L		91	80 - 121
Methyl tertiary butyl ether	2.5	U	100	101	D	ug/L		101	71 - 124
Methylene Chloride	2.5	U	100	113	D	ug/L		113	74 - 124
Naphthalene	17	J D	100	114	D	ug/L		98	61 - 128
n-Butylbenzene	2.5	U	100	117	D	ug/L		117	75 - 128
N-Propylbenzene	1.1	J D	100	125	D	ug/L		124	76 - 126
o-Xylene	51	J1 D	100	137	D	ug/L		86	78 - 122
p-Isopropyltoluene	30	D	100	134	D	ug/L		104	77 - 127
sec-Butylbenzene	2.5	U	100	123	D	ug/L		123	77 - 126
Styrene	2.5	U M	100	115	D	ug/L		115	78 - 123
tert-Butylbenzene	5.0	U	100	120	D	ug/L		120	78 - 124
Tetrachloroethene	2.5	U	100	109	D	ug/L		109	74 - 129
Toluene	390	J1 D	100	276	J1 D	ug/L		-117	80 - 121
trans-1,2-Dichloroethene	2.5	U	100	114	D	ug/L		114	75 - 124
trans-1,3-Dichloropropene	2.5	U	100	105	D	ug/L		105	73 - 127
Trichloroethene	2.5	U	100	113	D	ug/L		113	79 - 123
Trichlorofluoromethane	2.5	U	100	109	D	ug/L		109	65 - 141
Vinyl chloride	2.5	U	100	110	D	ug/L		110	58 - 137
Xylenes, Total	130		300	394		ug/L		89	79 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	102		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-18029-5 MS

Matrix: Water

Analysis Batch: 61497

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	10	U Q	500	447	D	ug/L		89	54 - 146
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	101		81 - 118						
4-Bromofluorobenzene (Surr)	107		85 - 114						
Dibromofluoromethane (Surr)	97		80 - 119						
Toluene-d8 (Surr)	101		89 - 112						

Lab Sample ID: 410-18029-5 MSD

Matrix: Water

Analysis Batch: 61497

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.5	U	100	113	D	ug/L		113	78 - 124	2	20
1,1,1-Trichloroethane	2.5	U	100	115	D	ug/L		115	74 - 131	0	20
1,1,2,2-Tetrachloroethane	2.5	U M	100	111	D	ug/L		111	71 - 121	4	20
1,1,2-Trichloroethane	2.5	U	100	114	D	ug/L		114	80 - 119	0	20
1,1-Dichloroethane	2.5	U	100	113	D	ug/L		113	77 - 125	0	20
1,1-Dichloroethene	2.5	U	100	125	D	ug/L		125	71 - 131	2	20
1,1-Dichloropropene	2.5	U	100	117	D	ug/L		117	79 - 125	0	20
1,2,3-Trichlorobenzene	5.0	U	100	109	D	ug/L		109	69 - 129	0	20
1,2,3-Trichloropropane	2.5	U M	100	113	D	ug/L		113	73 - 122	0	20
1,2,4-Trichlorobenzene	5.0	U	100	111	D	ug/L		111	69 - 130	2	20
1,2,4-Trimethylbenzene	6.0	J D	100	117	D	ug/L		111	76 - 124	0	20
1,2-Dibromo-3-Chloropropane	5.0	U M	100	107	D	ug/L		107	62 - 128	0	20
1,2-Dibromoethane	32	D	100	123	D	ug/L		91	77 - 121	5	20
1,2-Dichlorobenzene	2.5	U	100	116	D	ug/L		116	80 - 119	3	20
1,2-Dichloroethane	2.5	U M	100	105	D	ug/L		105	73 - 128	6	20
1,2-Dichloropropane	2.5	U	100	111	D	ug/L		111	78 - 122	1	20
1,3,5-Trimethylbenzene	2.8	J D	100	122	D	ug/L		119	75 - 124	2	20
1,3-Dichlorobenzene	2.5	U	100	115	D	ug/L		115	80 - 119	2	20
1,3-Dichloropropane	2.5	U	100	109	D	ug/L		109	80 - 119	1	20
1,4-Dichlorobenzene	2.5	U	100	115	D	ug/L		115	79 - 118	1	20
2,2-Dichloropropane	2.5	U	100	113	D	ug/L		113	60 - 139	1	20
2-Butanone	86	D	750	770	D	ug/L		91	56 - 143	6	20
2-Chlorotoluene	2.5	U M	100	120	D	ug/L		120	79 - 122	0	20
2-Hexanone	490	J1 D	500	580	D J1	ug/L		17	57 - 139	31	20
4-Chlorotoluene	2.5	U	100	119	D	ug/L		119	78 - 122	2	20
4-Methyl-2-pentanone	190	D	500	539	D	ug/L		70	67 - 130	15	20
Acetone	670	D	750	976	D	ug/L		40	39 - 160	20	20
Acrolein	25	U	750	819	D	ug/L		109	39 - 155	4	20
Acrylonitrile	5.0	U	500	502	D	ug/L		100	63 - 135	0	20
Benzene	770	J1 D	100	129	4 D J1	ug/L		-645	42 - 138	102	20
Bromobenzene	2.5	U	100	115	D	ug/L		115	80 - 120	0	20
Bromochloromethane	2.5	U	100	99.9	D	ug/L		100	78 - 123	2	20
Bromodichloromethane	2.5	U	100	107	D	ug/L		107	79 - 125	1	20
Bromoform	10	U	100	104	D	ug/L		104	66 - 130	2	20
Bromomethane	2.5	U	100	103	D	ug/L		103	53 - 141	1	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-18029-5 MSD

Matrix: Water

Analysis Batch: 61497

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	2.5	U	100	114	D	ug/L		114	64 - 133	0	20
Carbon tetrachloride	2.5	U	100	119	D	ug/L		119	72 - 136	1	20
Chlorobenzene	2.5	U	100	114	D	ug/L		114	82 - 118	0	20
Chloroethane	2.5	U	100	104	D	ug/L		104	60 - 138	2	20
Chloroform	2.5	U	100	113	D	ug/L		113	79 - 124	1	20
Chloromethane	2.5	U	100	97.7	D	ug/L		98	50 - 139	1	20
cis-1,2-Dichloroethene	2.5	U	100	115	D	ug/L		115	78 - 123	0	20
cis-1,3-Dichloropropene	2.5	U	100	104	D	ug/L		104	75 - 124	0	20
Dibromochloromethane	2.5	U	100	109	D	ug/L		109	74 - 126	1	20
Dibromomethane	2.5	U	100	104	D	ug/L		104	79 - 123	1	20
Dichlorodifluoromethane	2.5	U	100	89.6	D	ug/L		90	32 - 152	7	20
Ethylbenzene	15	D	100	117	D	ug/L		102	79 - 121	3	20
Hexachlorobutadiene	20	U	100	115	D	ug/L		115	66 - 134	1	20
Isopropylbenzene	200	J1 D	100	118	D J1	ug/L		-84	72 - 131	41	20
m&p-Xylene	75	D	200	237	D	ug/L		81	80 - 121	8	20
Methyl tertiary butyl ether	2.5	U	100	102	D	ug/L		102	71 - 124	0	20
Methylene Chloride	2.5	U	100	111	D	ug/L		111	74 - 124	1	20
Naphthalene	17	J D	100	109	D	ug/L		92	61 - 128	5	20
n-Butylbenzene	2.5	U	100	117	D	ug/L		117	75 - 128	0	20
N-Propylbenzene	1.1	J D	100	124	D	ug/L		123	76 - 126	0	20
o-Xylene	51	J1 D	100	126	D J1	ug/L		75	78 - 122	9	20
p-Isopropyltoluene	30	D	100	133	D	ug/L		103	77 - 127	1	20
sec-Butylbenzene	2.5	U	100	124	D	ug/L		124	77 - 126	0	20
Styrene	2.5	U M	100	114	D	ug/L		114	78 - 123	1	20
tert-Butylbenzene	5.0	U	100	121	D	ug/L		121	78 - 124	1	20
Tetrachloroethene	2.5	U	100	108	D	ug/L		108	74 - 129	1	20
Toluene	390	J1 D	100	144	D J1	ug/L		-249	80 - 121	63	20
trans-1,2-Dichloroethene	2.5	U	100	116	D	ug/L		116	75 - 124	2	20
trans-1,3-Dichloropropene	2.5	U	100	106	D	ug/L		106	73 - 127	1	20
Trichloroethene	2.5	U	100	113	D	ug/L		113	79 - 123	0	20
Trichlorofluoromethane	2.5	U	100	108	D	ug/L		108	65 - 141	1	20
Vinyl chloride	2.5	U	100	110	D	ug/L		110	58 - 137	0	20
Xylenes, Total	130		300	363		ug/L		79	79 - 121	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Lab Sample ID: 410-18029-5 MSD

Matrix: Water

Analysis Batch: 61497

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	10	U Q	500	471	D	ug/L		94	54 - 146	5	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-18029-5 MSD

Matrix: Water

Analysis Batch: 61497

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: MB 410-61753/10

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 21:09	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:09	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:09	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:09	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 21:09	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 21:09	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 21:09	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 21:09	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 21:09	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 21:09	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 21:09	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61753/10

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 21:09	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 21:09	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:09	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:09	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 21:09	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:09	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 21:09	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 21:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/03/20 21:09	1
4-Bromofluorobenzene (Surr)	91		85 - 114		11/03/20 21:09	1
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 21:09	1
Toluene-d8 (Surr)	98		89 - 112		11/03/20 21:09	1

Lab Sample ID: LCS 410-61753/5

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.5		ug/L		103	78 - 124
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	80 - 119
1,1-Dichloroethane	20.0	19.6		ug/L		98	77 - 125

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61753/5

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	21.8		ug/L		109	71 - 131
1,1-Dichloropropene	20.0	20.7		ug/L		104	79 - 125
1,2,3-Trichlorobenzene	20.0	20.7		ug/L		104	69 - 129
1,2,3-Trichloropropane	20.0	19.7		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	20.0	20.4		ug/L		102	69 - 130
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.4		ug/L		87	62 - 128
1,2-Dibromoethane	20.0	20.3		ug/L		101	77 - 121
1,2-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	18.4		ug/L		92	73 - 128
1,2-Dichloropropane	20.0	20.5		ug/L		102	78 - 122
1,3,5-Trimethylbenzene	20.0	20.3		ug/L		102	75 - 124
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 119
1,3-Dichloropropane	20.0	19.6		ug/L		98	80 - 119
1,4-Dichlorobenzene	20.0	21.1		ug/L		105	79 - 118
2,2-Dichloropropane	20.0	19.3		ug/L		96	60 - 139
2-Butanone	150	133		ug/L		89	56 - 143
2-Chlorotoluene	20.0	21.8		ug/L		109	79 - 122
2-Hexanone	100	88.6		ug/L		89	57 - 139
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122
4-Methyl-2-pentanone	100	91.1		ug/L		91	67 - 130
Acetone	150	168		ug/L		112	39 - 160
Acrolein	150	146		ug/L		97	39 - 155
Acrylonitrile	100	93.8		ug/L		94	63 - 135
Benzene	20.0	20.6		ug/L		103	42 - 138
Bromobenzene	20.0	21.6		ug/L		108	80 - 120
Bromochloromethane	20.0	20.0		ug/L		100	78 - 123
Bromodichloromethane	20.0	19.8		ug/L		99	79 - 125
Bromoform	20.0	19.1		ug/L		96	66 - 130
Bromomethane	20.0	19.1		ug/L		96	53 - 141
Carbon disulfide	20.0	20.4		ug/L		102	64 - 133
Carbon tetrachloride	20.0	19.6		ug/L		98	72 - 136
Chlorobenzene	20.0	21.5		ug/L		108	82 - 118
Chloroethane	20.0	17.1		ug/L		85	60 - 138
Chloroform	20.0	20.0		ug/L		100	79 - 124
Chloromethane	20.0	14.4		ug/L		72	50 - 139
cis-1,2-Dichloroethene	20.0	22.1		ug/L		111	78 - 123
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	75 - 124
Dibromochloromethane	20.0	19.8		ug/L		99	74 - 126
Dibromomethane	20.0	19.9		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	15.4		ug/L		77	32 - 152
Ethylbenzene	20.0	21.2		ug/L		106	79 - 121
Hexachlorobutadiene	20.0	21.9		ug/L		110	66 - 134
Isopropylbenzene	20.0	21.0		ug/L		105	72 - 131
m&p-Xylene	40.0	43.3		ug/L		108	80 - 121
Methyl tertiary butyl ether	20.0	18.0		ug/L		90	71 - 124
Methylene Chloride	20.0	20.7		ug/L		104	74 - 124
Naphthalene	20.0	19.7		ug/L		99	61 - 128
n-Butylbenzene	20.0	19.8		ug/L		99	75 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61753/5

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Propylbenzene	20.0	21.6		ug/L		108	76 - 126
o-Xylene	20.0	21.1		ug/L		106	78 - 122
p-Isopropyltoluene	20.0	20.9		ug/L		105	77 - 127
sec-Butylbenzene	20.0	20.8		ug/L		104	77 - 126
Styrene	20.0	21.0		ug/L		105	78 - 123
tert-Butylbenzene	20.0	20.3		ug/L		102	78 - 124
Tetrachloroethene	20.0	22.8		ug/L		114	74 - 129
Toluene	20.0	21.4		ug/L		107	80 - 121
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	75 - 124
trans-1,3-Dichloropropene	20.0	17.8		ug/L		89	73 - 127
Trichloroethene	20.0	21.0		ug/L		105	79 - 123
Trichlorofluoromethane	20.0	18.9		ug/L		95	65 - 141
Vinyl chloride	20.0	16.7		ug/L		84	58 - 137
Xylenes, Total	60.0	64.4		ug/L		107	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-61753/7

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	92.6		ug/L		93	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	91		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-61753/6

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/L		102	78 - 124	0	20
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	74 - 131	0	20
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121	0	20
1,1,2-Trichloroethane	20.0	21.1		ug/L		105	80 - 119	1	20
1,1-Dichloroethane	20.0	20.1		ug/L		100	77 - 125	2	20
1,1-Dichloroethene	20.0	22.4		ug/L		112	71 - 131	3	20
1,1-Dichloropropene	20.0	20.9		ug/L		105	79 - 125	1	20
1,2,3-Trichlorobenzene	20.0	20.7		ug/L		104	69 - 129	0	20
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122	1	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61753/6

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		104	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	20.4		ug/L		102	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	62 - 128	3	20
1,2-Dibromoethane	20.0	20.1		ug/L		100	77 - 121	1	20
1,2-Dichlorobenzene	20.0	21.4		ug/L		107	80 - 119	1	20
1,2-Dichloroethane	20.0	18.8		ug/L		94	73 - 128	2	20
1,2-Dichloropropane	20.0	20.9		ug/L		105	78 - 122	2	20
1,3,5-Trimethylbenzene	20.0	20.8		ug/L		104	75 - 124	3	20
1,3-Dichlorobenzene	20.0	21.1		ug/L		106	80 - 119	1	20
1,3-Dichloropropane	20.0	19.5		ug/L		98	80 - 119	0	20
1,4-Dichlorobenzene	20.0	21.6		ug/L		108	79 - 118	2	20
2,2-Dichloropropane	20.0	20.0	M	ug/L		100	60 - 139	4	20
2-Butanone	150	133		ug/L		89	56 - 143	0	20
2-Chlorotoluene	20.0	21.6		ug/L		108	79 - 122	1	20
2-Hexanone	100	89.2		ug/L		89	57 - 139	1	20
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122	0	20
4-Methyl-2-pentanone	100	91.9		ug/L		92	67 - 130	1	20
Acetone	150	156		ug/L		104	39 - 160	7	20
Acrolein	150	141		ug/L		94	39 - 155	3	20
Acrylonitrile	100	95.6		ug/L		96	63 - 135	2	20
Benzene	20.0	20.9		ug/L		104	42 - 138	1	20
Bromobenzene	20.0	21.9		ug/L		109	80 - 120	1	20
Bromochloromethane	20.0	20.4		ug/L		102	78 - 123	2	20
Bromodichloromethane	20.0	19.7		ug/L		98	79 - 125	1	20
Bromoform	20.0	19.0		ug/L		95	66 - 130	0	20
Bromomethane	20.0	18.4		ug/L		92	53 - 141	4	20
Carbon disulfide	20.0	20.6		ug/L		103	64 - 133	1	20
Carbon tetrachloride	20.0	19.7		ug/L		98	72 - 136	1	20
Chlorobenzene	20.0	21.7		ug/L		108	82 - 118	1	20
Chloroethane	20.0	16.4		ug/L		82	60 - 138	4	20
Chloroform	20.0	20.3		ug/L		102	79 - 124	2	20
Chloromethane	20.0	14.9		ug/L		74	50 - 139	3	20
cis-1,2-Dichloroethene	20.0	22.3		ug/L		112	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	75 - 124	2	20
Dibromochloromethane	20.0	20.1		ug/L		100	74 - 126	1	20
Dibromomethane	20.0	20.0		ug/L		100	79 - 123	0	20
Dichlorodifluoromethane	20.0	14.9		ug/L		75	32 - 152	3	20
Ethylbenzene	20.0	21.2		ug/L		106	79 - 121	0	20
Hexachlorobutadiene	20.0	22.3		ug/L		111	66 - 134	2	20
Isopropylbenzene	20.0	21.2		ug/L		106	72 - 131	1	20
m&p-Xylene	40.0	43.5		ug/L		109	80 - 121	1	20
Methyl tertiary butyl ether	20.0	18.2		ug/L		91	71 - 124	1	20
Methylene Chloride	20.0	21.0		ug/L		105	74 - 124	1	20
Naphthalene	20.0	19.9		ug/L		99	61 - 128	1	20
n-Butylbenzene	20.0	20.5		ug/L		102	75 - 128	4	20
N-Propylbenzene	20.0	22.0		ug/L		110	76 - 126	2	20
o-Xylene	20.0	21.0		ug/L		105	78 - 122	0	20
p-Isopropyltoluene	20.0	21.3		ug/L		106	77 - 127	2	20
sec-Butylbenzene	20.0	21.2		ug/L		106	77 - 126	2	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61753/6

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Styrene	20.0	21.1		ug/L		106	78 - 123	0	20
tert-Butylbenzene	20.0	20.7		ug/L		103	78 - 124	2	20
Tetrachloroethene	20.0	23.0		ug/L		115	74 - 129	1	20
Toluene	20.0	21.6		ug/L		108	80 - 121	1	20
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	75 - 124	1	20
trans-1,3-Dichloropropene	20.0	18.1		ug/L		90	73 - 127	1	20
Trichloroethene	20.0	21.7		ug/L		109	79 - 123	3	20
Trichlorofluoromethane	20.0	19.0		ug/L		95	65 - 141	0	20
Vinyl chloride	20.0	16.6		ug/L		83	58 - 137	1	20
Xylenes, Total	60.0	64.5		ug/L		108	79 - 121	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	101		89 - 112

Lab Sample ID: LCSD 410-61753/8

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	92.2		ug/L		92	54 - 146	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	91		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 11:35	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 11:35	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 11:35	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 11:35	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/04/20 11:35	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 11:35	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 11:35	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 11:35	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 11:35	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 11:35	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 11:35	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 11:35	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/04/20 11:35	1
4-Bromofluorobenzene (Surr)	92		85 - 114		11/04/20 11:35	1
Dibromofluoromethane (Surr)	97		80 - 119		11/04/20 11:35	1
Toluene-d8 (Surr)	99		89 - 112		11/04/20 11:35	1

Lab Sample ID: LCS 410-61889/6

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	21.1		ug/L		106	80 - 119
1,1-Dichloroethane	20.0	19.0		ug/L		95	77 - 125
1,1-Dichloroethene	20.0	20.3		ug/L		101	71 - 131
1,1-Dichloropropene	20.0	19.5		ug/L		97	79 - 125
1,2,3-Trichlorobenzene	20.0	20.3		ug/L		102	69 - 129
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		100	69 - 130
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	62 - 128
1,2-Dibromoethane	20.0	19.9		ug/L		100	77 - 121
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	17.9		ug/L		90	73 - 128
1,2-Dichloropropane	20.0	20.1		ug/L		100	78 - 122
1,3,5-Trimethylbenzene	20.0	19.8		ug/L		99	75 - 124
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,3-Dichloropropane	20.0	19.0		ug/L		95	80 - 119
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	18.5	M	ug/L		93	60 - 139
2-Butanone	150	147		ug/L		98	56 - 143
2-Chlorotoluene	20.0	21.0		ug/L		105	79 - 122
2-Hexanone	100	92.8		ug/L		93	57 - 139
4-Chlorotoluene	20.0	20.8		ug/L		104	78 - 122
4-Methyl-2-pentanone	100	92.8		ug/L		93	67 - 130
Acetone	150	189		ug/L		126	39 - 160
Acrolein	150	139		ug/L		93	39 - 155
Acrylonitrile	100	99.0		ug/L		99	63 - 135

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61889/6

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.9		ug/L		99	42 - 138
Bromobenzene	20.0	21.1		ug/L		106	80 - 120
Bromochloromethane	20.0	19.0		ug/L		95	78 - 123
Bromodichloromethane	20.0	18.6		ug/L		93	79 - 125
Bromoform	20.0	18.1		ug/L		91	66 - 130
Bromomethane	20.0	18.9		ug/L		95	53 - 141
Carbon disulfide	20.0	19.1		ug/L		95	64 - 133
Carbon tetrachloride	20.0	18.1		ug/L		91	72 - 136
Chlorobenzene	20.0	20.7		ug/L		103	82 - 118
Chloroethane	20.0	17.1		ug/L		86	60 - 138
Chloroform	20.0	19.2		ug/L		96	79 - 124
Chloromethane	20.0	15.9		ug/L		79	50 - 139
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	78 - 123
cis-1,3-Dichloropropene	20.0	18.8		ug/L		94	75 - 124
Dibromochloromethane	20.0	19.3		ug/L		97	74 - 126
Dibromomethane	20.0	19.5		ug/L		98	79 - 123
Dichlorodifluoromethane	20.0	15.0		ug/L		75	32 - 152
Ethylbenzene	20.0	20.0		ug/L		100	79 - 121
Hexachlorobutadiene	20.0	20.4		ug/L		102	66 - 134
Isopropylbenzene	20.0	20.1		ug/L		101	72 - 131
m&p-Xylene	40.0	41.4		ug/L		103	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	20.1		ug/L		100	74 - 124
Naphthalene	20.0	19.9		ug/L		99	61 - 128
n-Butylbenzene	20.0	19.3		ug/L		96	75 - 128
N-Propylbenzene	20.0	20.9		ug/L		104	76 - 126
o-Xylene	20.0	20.3		ug/L		102	78 - 122
p-Isopropyltoluene	20.0	19.9		ug/L		100	77 - 127
sec-Butylbenzene	20.0	20.2		ug/L		101	77 - 126
Styrene	20.0	20.5		ug/L		103	78 - 123
tert-Butylbenzene	20.0	19.3		ug/L		96	78 - 124
Tetrachloroethene	20.0	22.0		ug/L		110	74 - 129
Toluene	20.0	20.3		ug/L		102	80 - 121
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	18.0		ug/L		90	73 - 127
Trichloroethene	20.0	19.9		ug/L		99	79 - 123
Trichlorofluoromethane	20.0	18.5		ug/L		92	65 - 141
Vinyl chloride	20.0	16.8		ug/L		84	58 - 137
Xylenes, Total	60.0	61.7		ug/L		103	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61889/9

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	92.1		ug/L		92	54 - 146
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	100		81 - 118				
4-Bromofluorobenzene (Surr)	92		85 - 114				
Dibromofluoromethane (Surr)	94		80 - 119				
Toluene-d8 (Surr)	99		89 - 112				

Lab Sample ID: LCSD 410-61889/10

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	91.3		ug/L		91	54 - 146	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	101		81 - 118						
4-Bromofluorobenzene (Surr)	92		85 - 114						
Dibromofluoromethane (Surr)	95		80 - 119						
Toluene-d8 (Surr)	100		89 - 112						

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	78 - 124	2	20
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	71 - 121	1	20
1,1,2-Trichloroethane	20.0	21.3		ug/L		106	80 - 119	1	20
1,1-Dichloroethane	20.0	18.9		ug/L		95	77 - 125	0	20
1,1-Dichloroethene	20.0	20.7		ug/L		103	71 - 131	2	20
1,1-Dichloropropene	20.0	19.5		ug/L		97	79 - 125	0	20
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	69 - 129	0	20
1,2,3-Trichloropropane	20.0	19.8		ug/L		99	73 - 122	0	20
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/L		91	62 - 128	1	20
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121	0	20
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 119	0	20
1,2-Dichloroethane	20.0	17.9		ug/L		90	73 - 128	0	20
1,2-Dichloropropane	20.0	19.8		ug/L		99	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		99	75 - 124	0	20
1,3-Dichlorobenzene	20.0	20.5		ug/L		102	80 - 119	0	20
1,3-Dichloropropane	20.0	19.3		ug/L		96	80 - 119	1	20
1,4-Dichlorobenzene	20.0	20.7		ug/L		103	79 - 118	0	20
2,2-Dichloropropane	20.0	18.1		ug/L		91	60 - 139	2	20
2-Butanone	150	147		ug/L		98	56 - 143	0	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	20.7		ug/L		104	79 - 122	1	20
2-Hexanone	100	92.3		ug/L		92	57 - 139	0	20
4-Chlorotoluene	20.0	20.8		ug/L		104	78 - 122	0	20
4-Methyl-2-pentanone	100	93.3		ug/L		93	67 - 130	1	20
Acetone	150	187		ug/L		125	39 - 160	1	20
Acrolein	150	139		ug/L		93	39 - 155	0	20
Acrylonitrile	100	98.8		ug/L		99	63 - 135	0	20
Benzene	20.0	19.9		ug/L		99	42 - 138	0	20
Bromobenzene	20.0	21.3		ug/L		106	80 - 120	1	20
Bromochloromethane	20.0	19.1		ug/L		96	78 - 123	1	20
Bromodichloromethane	20.0	18.9		ug/L		95	79 - 125	1	20
Bromoform	20.0	18.6		ug/L		93	66 - 130	3	20
Bromomethane	20.0	19.4		ug/L		97	53 - 141	3	20
Carbon disulfide	20.0	19.1		ug/L		95	64 - 133	0	20
Carbon tetrachloride	20.0	18.5		ug/L		93	72 - 136	2	20
Chlorobenzene	20.0	20.8		ug/L		104	82 - 118	1	20
Chloroethane	20.0	17.5		ug/L		88	60 - 138	2	20
Chloroform	20.0	19.2		ug/L		96	79 - 124	0	20
Chloromethane	20.0	16.2		ug/L		81	50 - 139	2	20
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	75 - 124	1	20
Dibromochloromethane	20.0	19.6		ug/L		98	74 - 126	1	20
Dibromomethane	20.0	19.7		ug/L		98	79 - 123	1	20
Dichlorodifluoromethane	20.0	15.8		ug/L		79	32 - 152	5	20
Ethylbenzene	20.0	20.2		ug/L		101	79 - 121	1	20
Hexachlorobutadiene	20.0	20.6		ug/L		103	66 - 134	1	20
Isopropylbenzene	20.0	20.2		ug/L		101	72 - 131	0	20
m&p-Xylene	40.0	41.8		ug/L		104	80 - 121	1	20
Methyl tertiary butyl ether	20.0	17.9		ug/L		89	71 - 124	0	20
Methylene Chloride	20.0	20.2		ug/L		101	74 - 124	1	20
Naphthalene	20.0	19.8		ug/L		99	61 - 128	0	20
n-Butylbenzene	20.0	19.3		ug/L		96	75 - 128	0	20
N-Propylbenzene	20.0	20.7		ug/L		104	76 - 126	1	20
o-Xylene	20.0	20.5		ug/L		102	78 - 122	1	20
p-Isopropyltoluene	20.0	20.1		ug/L		101	77 - 127	1	20
sec-Butylbenzene	20.0	20.2		ug/L		101	77 - 126	0	20
Styrene	20.0	20.6		ug/L		103	78 - 123	0	20
tert-Butylbenzene	20.0	19.5		ug/L		97	78 - 124	1	20
Tetrachloroethene	20.0	22.1		ug/L		111	74 - 129	0	20
Toluene	20.0	20.7		ug/L		104	80 - 121	2	20
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124	2	20
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	73 - 127	1	20
Trichloroethene	20.0	20.1		ug/L		100	79 - 123	1	20
Trichlorofluoromethane	20.0	18.8		ug/L		94	65 - 141	2	20
Vinyl chloride	20.0	17.9		ug/L		89	58 - 137	6	20
Xylenes, Total	60.0	62.3		ug/L		104	79 - 121	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-59749/1-A

Matrix: Water

Analysis Batch: 60089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59749

Analysis Data: 00000										Prep Data: 00110	
Analyte	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac		
	Result	Qualifier									
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/29/20 17:40		1	
Surrogate	MB		Limits			Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier									
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136			10/28/20 23:38	10/29/20 17:40		1		
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136			10/28/20 23:38	10/29/20 17:40		1		

Lab Sample ID: LCS 410-59749/2-A

Matrix: Water

Analysis Batch: 60089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59749

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (1C)		0.128	0.168		ug/L		131	60 - 140	
Surrogate	LCS	LCS							
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136						
	99		46 - 136						

Lab Sample ID: LCSD 410-59749/3-A

Matrix: Water

Analysis Batch: 60089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59749

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)		0.128	0.168		ug/L		132	60 - 140	0	20
Surrogate	LCSD	LCSD								
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier	Limits							
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136							
	102		46 - 136							

Lab Sample ID: 410-18029-5 MS

Matrix: Water

Analysis Batch: 60671

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Prep Batch: 59749

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (1C)	28	D M J1	0.122	26.3	D M 4	ug/L		-995	60 - 140	

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: 410-18029-5 MS

Matrix: Water

Analysis Batch: 60671

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Prep Batch: 59749

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	829	J1 Q	46 - 136
1,1,2,2-Tetrachloroethane (2C)	172	J1 Q	46 - 136

Lab Sample ID: 410-18029-5 MSD

Matrix: Water

Analysis Batch: 60671

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Prep Batch: 59749

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	28	D M J1	0.121	26.3	D M 4	ug/L		-1010	60 - 140	0	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	734	Q	46 - 136								
1,1,2,2-Tetrachloroethane (2C)	974	Q	46 - 136								

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-63039/4

Matrix: Water

Analysis Batch: 63039

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		11/06/20 10:45	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		11/06/20 10:45	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/06/20 10:45	1

Lab Sample ID: LCS 410-63039/3

Matrix: Water

Analysis Batch: 63039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.05		mg/L		94	90 - 110
Chloride	3.00	2.79		mg/L		93	90 - 110
Sulfate	7.50	7.20		mg/L		96	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-58472/1-A

Matrix: Water

Analysis Batch: 59178

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58472

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/27/20 15:37	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/27/20 15:37	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-58472/2-A

Matrix: Water

Analysis Batch: 59178

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.426		mg/L		106	87 - 115
Manganese	0.0200	0.0218		mg/L		109	90 - 114

Lab Sample ID: MB 410-84996/1-A

Matrix: Water

Analysis Batch: 85084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 84996

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		01/15/21 05:19	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		01/15/21 05:19	1

Lab Sample ID: LCS 410-84996/2-A

Matrix: Water

Analysis Batch: 85084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 84996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.400	0.430		mg/L		107	87 - 115
Manganese	0.0200	0.0215		mg/L		107	90 - 114

Lab Sample ID: MB 410-57690/1-A

Matrix: Water

Analysis Batch: 58202

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57690

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/23/20 14:42	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/23/20 14:42	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/23/20 14:42	1

Lab Sample ID: MB 410-57690/1-A

Matrix: Water

Analysis Batch: 58377

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57690

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/26/20 07:25	1

Lab Sample ID: LCS 410-57690/2-A

Matrix: Water

Analysis Batch: 58202

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.405		mg/L		101	87 - 113
Magnesium	0.200	0.211		mg/L		105	85 - 113
Potassium	5.60	5.96		mg/L		106	86 - 114

Lab Sample ID: LCS 410-57690/2-A

Matrix: Water

Analysis Batch: 58377

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	2.00	2.24		mg/L		112	87 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-58245/1-A

Matrix: Water

Analysis Batch: 59236

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58245

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/27/20 17:57	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/27/20 17:57	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/27/20 17:57	1

Lab Sample ID: MB 410-58245/1-A

Matrix: Water

Analysis Batch: 59493

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58245

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/28/20 09:32	1

Lab Sample ID: LCS 410-58245/2-A

Matrix: Water

Analysis Batch: 59236

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.395		mg/L		99	87 - 113
Magnesium	0.200	0.196		mg/L		98	85 - 113
Sodium	2.00	2.06		mg/L		103	87 - 115

Lab Sample ID: LCS 410-58245/2-A

Matrix: Water

Analysis Batch: 59493

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.42		mg/L		97	86 - 114

Lab Sample ID: 410-18029-5 MS

Matrix: Water

Analysis Batch: 85084

Client Sample ID: GWS8-451-204

Prep Type: Dissolved

Prep Batch: 84996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	6.0	J1	0.400	12.9	4	mg/L		1713	87 - 115
Manganese	2.2	J1	0.0200	4.66	4	mg/L		12115	90 - 114

Lab Sample ID: 410-18029-5 MSD

Matrix: Water

Analysis Batch: 85084

Client Sample ID: GWS8-451-204

Prep Type: Dissolved

Prep Batch: 84996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	6.0	J1	0.400	10.4	4 J1	mg/L		1096	87 - 115	21	20
Manganese	2.2	J1	0.0200	5.36	4	mg/L		15629	90 - 114	14	20

Lab Sample ID: 410-18029-5 DU

Matrix: Water

Analysis Batch: 85084

Client Sample ID: GWS8-451-204

Prep Type: Dissolved

Prep Batch: 84996

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	6.0	J1	4.33	J1	mg/L		33	20
Manganese	2.2	J1	2.38		mg/L		6	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 410-18029-5 MS

Matrix: Water

Analysis Batch: 58917

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Prep Batch: 58241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.010		0.0600	0.0679		mg/L		96	84 - 116
Lead	0.00023	J	0.0300	0.0314		mg/L		104	88 - 115

Lab Sample ID: 410-18029-5 MSD

Matrix: Water

Analysis Batch: 58917

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Prep Batch: 58241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.010		0.0600	0.0682		mg/L		97	84 - 116	0	20
Lead	0.00023	J	0.0300	0.0314		mg/L		104	88 - 115	0	20

Lab Sample ID: 410-18029-5 DU

Matrix: Water

Analysis Batch: 58917

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Prep Batch: 58241

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.010		0.0107		mg/L		5	20
Lead	0.00023	J	0.000193	J	mg/L		18	20

Lab Sample ID: MB 410-57627/1-A

Matrix: Water

Analysis Batch: 58407

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 57627

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/23/20 18:09	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/23/20 18:09	1

Lab Sample ID: LCS 410-57627/2-A

Matrix: Water

Analysis Batch: 58407

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 57627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0602		mg/L		100	84 - 116
Lead	0.0300	0.0313		mg/L		104	88 - 115

Lab Sample ID: MB 410-58241/1-A

Matrix: Water

Analysis Batch: 58917

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58241

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/26/20 19:33	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 19:33	1

Lab Sample ID: LCS 410-58241/2-A

Matrix: Water

Analysis Batch: 58917

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0590		mg/L		98	84 - 116
Lead	0.0300	0.0310		mg/L		104	88 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-59097/28

Matrix: Water

Analysis Batch: 59097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/26/20 23:11	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/26/20 23:11	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		10/26/20 23:11	1

Lab Sample ID: LCS 410-59097/29

Matrix: Water

Analysis Batch: 59097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	181		mg/L		96	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-67079/52

Matrix: Water

Analysis Batch: 67079

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 11:42	1

Lab Sample ID: LCS 410-67079/53

Matrix: Water

Analysis Batch: 67079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.47		mg/L		99	90 - 110

Lab Sample ID: 410-18029-5 MS

Matrix: Water

Analysis Batch: 67079

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.090	U	1.00	0.922		mg/L		92	90 - 110

Lab Sample ID: 410-18029-5 DU

Matrix: Water

Analysis Batch: 67079

Client Sample ID: GWS8-451-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.090	U	0.090	U	mg/L		NC	10

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

GC/MS VOA

Analysis Batch: 61497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total/NA	Water	8260C DOD	
410-18029-1 - DL	GW153-484-204	Total/NA	Water	8260C DOD	
410-18029-2	GW024-204	Total/NA	Water	8260C DOD	
410-18029-3	GWS1-447-204	Total/NA	Water	8260C DOD	
410-18029-4	TB204-58	Total/NA	Water	8260C DOD	
410-18029-5	GWS8-451-204	Total/NA	Water	8260C DOD	
410-18029-6	TB204-59	Total/NA	Water	8260C DOD	
410-18029-7	GW152-484-204	Total/NA	Water	8260C DOD	
410-18029-9	GW151-484-604	Total/NA	Water	8260C DOD	
410-18029-10	TB204-57	Total/NA	Water	8260C DOD	
410-18029-11	GW060-204	Total/NA	Water	8260C DOD	
410-18029-12	GW002-204	Total/NA	Water	8260C DOD	
MB 410-61497/11	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-61497/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-61497/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-61497/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-61497/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
410-18029-5 MS	GWS8-451-204	Total/NA	Water	8260C DOD	
410-18029-5 MS	GWS8-451-204	Total/NA	Water	8260C DOD	
410-18029-5 MSD	GWS8-451-204	Total/NA	Water	8260C DOD	
410-18029-5 MSD	GWS8-451-204	Total/NA	Water	8260C DOD	

Analysis Batch: 61753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-13	GW149-484-204	Total/NA	Water	8260C DOD	
410-18029-13 - DL	GW149-484-204	Total/NA	Water	8260C DOD	
410-18029-14	TB204-56	Total/NA	Water	8260C DOD	
MB 410-61753/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-61753/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-61753/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-61753/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-61753/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 61889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-8	GW151-484-204	Total/NA	Water	8260C DOD	
MB 410-61889/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-61889/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-61889/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-61889/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-61889/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 59749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total/NA	Water	8011	
410-18029-2	GW024-204	Total/NA	Water	8011	
410-18029-3	GWS1-447-204	Total/NA	Water	8011	
410-18029-4	TB204-58	Total/NA	Water	8011	
410-18029-5	GWS8-451-204	Total/NA	Water	8011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

GC Semi VOA (Continued)

Prep Batch: 59749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-6	TB204-59	Total/NA	Water	8011	
410-18029-7	GW152-484-204	Total/NA	Water	8011	
410-18029-8	GW151-484-204	Total/NA	Water	8011	
410-18029-9	GW151-484-604	Total/NA	Water	8011	
410-18029-10	TB204-57	Total/NA	Water	8011	
410-18029-11	GW060-204	Total/NA	Water	8011	
410-18029-12	GW002-204	Total/NA	Water	8011	
410-18029-13	GW149-484-204	Total/NA	Water	8011	
410-18029-14	TB204-56	Total/NA	Water	8011	
MB 410-59749/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-59749/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-59749/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-18029-5 MS	GWS8-451-204	Total/NA	Water	8011	
410-18029-5 MSD	GWS8-451-204	Total/NA	Water	8011	

Analysis Batch: 60089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-2	GW024-204	Total/NA	Water	8011	59749
410-18029-4	TB204-58	Total/NA	Water	8011	59749
410-18029-6	TB204-59	Total/NA	Water	8011	59749
410-18029-7	GW152-484-204	Total/NA	Water	8011	59749
410-18029-8	GW151-484-204	Total/NA	Water	8011	59749
410-18029-9	GW151-484-604	Total/NA	Water	8011	59749
410-18029-10	TB204-57	Total/NA	Water	8011	59749
410-18029-11	GW060-204	Total/NA	Water	8011	59749
410-18029-12	GW002-204	Total/NA	Water	8011	59749
410-18029-14	TB204-56	Total/NA	Water	8011	59749
MB 410-59749/1-A	Method Blank	Total/NA	Water	8011	59749
LCS 410-59749/2-A	Lab Control Sample	Total/NA	Water	8011	59749
LCSD 410-59749/3-A	Lab Control Sample Dup	Total/NA	Water	8011	59749

Analysis Batch: 60671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total/NA	Water	8011	59749
410-18029-3	GWS1-447-204	Total/NA	Water	8011	59749
410-18029-5	GWS8-451-204	Total/NA	Water	8011	59749
410-18029-13	GW149-484-204	Total/NA	Water	8011	59749
410-18029-5 MS	GWS8-451-204	Total/NA	Water	8011	59749
410-18029-5 MSD	GWS8-451-204	Total/NA	Water	8011	59749

HPLC/IC

Analysis Batch: 63039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-2	GW024-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-3	GWS1-447-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-3	GWS1-447-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-5	GWS8-451-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-7	GW152-484-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-7	GW152-484-204	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

HPLC/IC (Continued)

Analysis Batch: 63039 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-8	GW151-484-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-8	GW151-484-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-9	GW151-484-604	Total/NA	Water	EPA 300.0 R2.1	
410-18029-9	GW151-484-604	Total/NA	Water	EPA 300.0 R2.1	
410-18029-11	GW060-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-12	GW002-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-12	GW002-204	Total/NA	Water	EPA 300.0 R2.1	
410-18029-13	GW149-484-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-63039/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-63039/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 57627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total/NA	Water	3005A	
410-18029-2	GW024-204	Total/NA	Water	3005A	
410-18029-3	GWS1-447-204	Total/NA	Water	3005A	
410-18029-7	GW152-484-204	Total/NA	Water	3005A	
410-18029-8	GW151-484-204	Total/NA	Water	3005A	
410-18029-9	GW151-484-604	Total/NA	Water	3005A	
410-18029-11	GW060-204	Total/NA	Water	3005A	
410-18029-12	GW002-204	Total/NA	Water	3005A	
410-18029-13	GW149-484-204	Total/NA	Water	3005A	
MB 410-57627/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-57627/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 57690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total Recoverable	Water	3005A	
410-18029-2	GW024-204	Total Recoverable	Water	3005A	
410-18029-3	GWS1-447-204	Total Recoverable	Water	3005A	
MB 410-57690/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-57690/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 58202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total Recoverable	Water	6010C	57690
410-18029-2	GW024-204	Total Recoverable	Water	6010C	57690
410-18029-3	GWS1-447-204	Total Recoverable	Water	6010C	57690
MB 410-57690/1-A	Method Blank	Total Recoverable	Water	6010C	57690
LCS 410-57690/2-A	Lab Control Sample	Total Recoverable	Water	6010C	57690

Prep Batch: 58241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-5	GWS8-451-204	Total/NA	Water	3005A	
MB 410-58241/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-58241/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-18029-5 MS	GWS8-451-204	Total/NA	Water	3005A	
410-18029-5 MSD	GWS8-451-204	Total/NA	Water	3005A	
410-18029-5 DU	GWS8-451-204	Total/NA	Water	3005A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Metals

Prep Batch: 58245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-5	GWS8-451-204	Total Recoverable	Water	3005A	
410-18029-7	GW152-484-204	Total Recoverable	Water	3005A	
410-18029-8	GW151-484-204	Total Recoverable	Water	3005A	
410-18029-9	GW151-484-604	Total Recoverable	Water	3005A	
410-18029-11	GW060-204	Total Recoverable	Water	3005A	
410-18029-12	GW002-204	Total Recoverable	Water	3005A	
410-18029-13	GW149-484-204	Total Recoverable	Water	3005A	
MB 410-58245/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-58245/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 58377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total Recoverable	Water	6010C	57690
410-18029-2	GW024-204	Total Recoverable	Water	6010C	57690
410-18029-3	GWS1-447-204	Total Recoverable	Water	6010C	57690
MB 410-57690/1-A	Method Blank	Total Recoverable	Water	6010C	57690
LCS 410-57690/2-A	Lab Control Sample	Total Recoverable	Water	6010C	57690

Analysis Batch: 58407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total/NA	Water	6020A	57627
410-18029-2	GW024-204	Total/NA	Water	6020A	57627
410-18029-3	GWS1-447-204	Total/NA	Water	6020A	57627
410-18029-7	GW152-484-204	Total/NA	Water	6020A	57627
410-18029-8	GW151-484-204	Total/NA	Water	6020A	57627
410-18029-9	GW151-484-604	Total/NA	Water	6020A	57627
410-18029-11	GW060-204	Total/NA	Water	6020A	57627
410-18029-12	GW002-204	Total/NA	Water	6020A	57627
410-18029-13	GW149-484-204	Total/NA	Water	6020A	57627
MB 410-57627/1-A	Method Blank	Total Recoverable	Water	6020A	57627
LCS 410-57627/2-A	Lab Control Sample	Total Recoverable	Water	6020A	57627

Prep Batch: 58472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Dissolved	Water	Non-Digest Prep	
410-18029-2	GW024-204	Dissolved	Water	Non-Digest Prep	
410-18029-3	GWS1-447-204	Dissolved	Water	Non-Digest Prep	
410-18029-7	GW152-484-204	Dissolved	Water	Non-Digest Prep	
410-18029-8	GW151-484-204	Dissolved	Water	Non-Digest Prep	
410-18029-9	GW151-484-604	Dissolved	Water	Non-Digest Prep	
410-18029-11	GW060-204	Dissolved	Water	Non-Digest Prep	
410-18029-12	GW002-204	Dissolved	Water	Non-Digest Prep	
410-18029-13	GW149-484-204	Dissolved	Water	Non-Digest Prep	
MB 410-58472/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-58472/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 58917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-5	GWS8-451-204	Total/NA	Water	6020A	58241
MB 410-58241/1-A	Method Blank	Total Recoverable	Water	6020A	58241
LCS 410-58241/2-A	Lab Control Sample	Total Recoverable	Water	6020A	58241

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Metals (Continued)

Analysis Batch: 58917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-5 MS	GWS8-451-204	Total/NA	Water	6020A	58241
410-18029-5 MSD	GWS8-451-204	Total/NA	Water	6020A	58241
410-18029-5 DU	GWS8-451-204	Total/NA	Water	6020A	58241

Analysis Batch: 59178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Dissolved	Water	6010C	58472
410-18029-2	GW024-204	Dissolved	Water	6010C	58472
410-18029-3	GWS1-447-204	Dissolved	Water	6010C	58472
410-18029-7	GW152-484-204	Dissolved	Water	6010C	58472
410-18029-8	GW151-484-204	Dissolved	Water	6010C	58472
410-18029-9	GW151-484-604	Dissolved	Water	6010C	58472
410-18029-11	GW060-204	Dissolved	Water	6010C	58472
410-18029-12	GW002-204	Dissolved	Water	6010C	58472
410-18029-13	GW149-484-204	Dissolved	Water	6010C	58472
MB 410-58472/1-A	Method Blank	Total/NA	Water	6010C	58472
LCS 410-58472/2-A	Lab Control Sample	Total/NA	Water	6010C	58472

Analysis Batch: 59236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-5	GWS8-451-204	Total Recoverable	Water	6010C	58245
410-18029-7	GW152-484-204	Total Recoverable	Water	6010C	58245
410-18029-8	GW151-484-204	Total Recoverable	Water	6010C	58245
410-18029-9	GW151-484-604	Total Recoverable	Water	6010C	58245
410-18029-11	GW060-204	Total Recoverable	Water	6010C	58245
410-18029-12	GW002-204	Total Recoverable	Water	6010C	58245
410-18029-13	GW149-484-204	Total Recoverable	Water	6010C	58245
MB 410-58245/1-A	Method Blank	Total Recoverable	Water	6010C	58245
LCS 410-58245/2-A	Lab Control Sample	Total Recoverable	Water	6010C	58245

Analysis Batch: 59493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-5	GWS8-451-204	Total Recoverable	Water	6010C	58245
410-18029-7	GW152-484-204	Total Recoverable	Water	6010C	58245
410-18029-8	GW151-484-204	Total Recoverable	Water	6010C	58245
410-18029-9	GW151-484-604	Total Recoverable	Water	6010C	58245
410-18029-11	GW060-204	Total Recoverable	Water	6010C	58245
410-18029-12	GW002-204	Total Recoverable	Water	6010C	58245
410-18029-13	GW149-484-204	Total Recoverable	Water	6010C	58245
MB 410-58245/1-A	Method Blank	Total Recoverable	Water	6010C	58245
LCS 410-58245/2-A	Lab Control Sample	Total Recoverable	Water	6010C	58245

Prep Batch: 84996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-5	GWS8-451-204	Dissolved	Water	Non-Digest Prep	
MB 410-84996/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-84996/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-18029-5 MS	GWS8-451-204	Dissolved	Water	Non-Digest Prep	
410-18029-5 MSD	GWS8-451-204	Dissolved	Water	Non-Digest Prep	
410-18029-5 DU	GWS8-451-204	Dissolved	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Metals

Analysis Batch: 85084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-5	GWS8-451-204	Dissolved	Water	6010C	84996
MB 410-84996/1-A	Method Blank	Total/NA	Water	6010C	84996
LCS 410-84996/2-A	Lab Control Sample	Total/NA	Water	6010C	84996
410-18029-5 MS	GWS8-451-204	Dissolved	Water	6010C	84996
410-18029-5 MSD	GWS8-451-204	Dissolved	Water	6010C	84996
410-18029-5 DU	GWS8-451-204	Dissolved	Water	6010C	84996

General Chemistry

Analysis Batch: 59097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total/NA	Water	2320B-2011	
410-18029-2	GW024-204	Total/NA	Water	2320B-2011	
410-18029-3	GWS1-447-204	Total/NA	Water	2320B-2011	
410-18029-5	GWS8-451-204	Total/NA	Water	2320B-2011	
410-18029-7	GW152-484-204	Total/NA	Water	2320B-2011	
410-18029-8	GW151-484-204	Total/NA	Water	2320B-2011	
410-18029-9	GW151-484-604	Total/NA	Water	2320B-2011	
410-18029-11	GW060-204	Total/NA	Water	2320B-2011	
410-18029-12	GW002-204	Total/NA	Water	2320B-2011	
410-18029-13	GW149-484-204	Total/NA	Water	2320B-2011	
MB 410-59097/28	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-59097/29	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 67079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18029-1	GW153-484-204	Total/NA	Water	353.2	
410-18029-2	GW024-204	Total/NA	Water	353.2	
410-18029-3	GWS1-447-204	Total/NA	Water	353.2	
410-18029-5	GWS8-451-204	Total/NA	Water	353.2	
410-18029-7	GW152-484-204	Total/NA	Water	353.2	
410-18029-8	GW151-484-204	Total/NA	Water	353.2	
410-18029-9	GW151-484-604	Total/NA	Water	353.2	
410-18029-11	GW060-204	Total/NA	Water	353.2	
410-18029-12	GW002-204	Total/NA	Water	353.2	
410-18029-13	GW149-484-204	Total/NA	Water	353.2	
MB 410-67079/52	Method Blank	Total/NA	Water	353.2	
LCS 410-67079/53	Lab Control Sample	Total/NA	Water	353.2	
410-18029-5 MS	GWS8-451-204	Total/NA	Water	353.2	
410-18029-5 DU	GWS8-451-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW153-484-204

Lab Sample ID: 410-18029-1

Date Collected: 10/21/20 10:35

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		20	61497	11/03/20 18:48	MJ8R	ELLE
Total/NA	Analysis	8260C DOD	DL	200	61497	11/03/20 19:08	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		200	60671	10/31/20 09:19	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 16:28	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:09	UCIG	ELLE
Total Recoverable	Prep	3005A			57690	10/23/20 05:55	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58377	10/26/20 07:31	MDP5	ELLE
Total Recoverable	Prep	3005A			57690	10/23/20 05:55	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58202	10/23/20 16:43	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:35	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 01:16	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:12	KGQ6	ELLE

Client Sample ID: GW024-204

Lab Sample ID: 410-18029-2

Date Collected: 10/21/20 13:21

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61497	11/03/20 16:06	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 18:48	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 17:40	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:13	UCIG	ELLE
Total Recoverable	Prep	3005A			57690	10/23/20 05:55	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58377	10/26/20 07:34	MDP5	ELLE
Total Recoverable	Prep	3005A			57690	10/23/20 05:55	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58202	10/23/20 16:47	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:37	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 02:07	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:15	KGQ6	ELLE

Client Sample ID: GWS1-447-204

Lab Sample ID: 410-18029-3

Date Collected: 10/21/20 09:50

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		100	61497	11/03/20 19:29	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		50	60671	10/31/20 09:36	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GWS1-447-204

Lab Sample ID: 410-18029-3

Date Collected: 10/21/20 09:50

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 18:16	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		10	63039	11/06/20 18:34	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:22	UCIG	ELLE
Total Recoverable	Prep	3005A			57690	10/23/20 05:55	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58377	10/26/20 07:37	MDP5	ELLE
Total Recoverable	Prep	3005A			57690	10/23/20 05:55	UAMX	ELLE
Total Recoverable	Analysis	6010C		1	58202	10/23/20 16:50	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:39	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 01:01	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:16	KGQ6	ELLE

Client Sample ID: TB204-58

Lab Sample ID: 410-18029-4

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61497	11/03/20 14:25	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 19:22	AC3T	ELLE

Client Sample ID: GWS8-451-204

Lab Sample ID: 410-18029-5

Date Collected: 10/21/20 11:20

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		5	61497	11/03/20 16:47	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		200	60671	10/31/20 09:53	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 18:52	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			84996	01/14/21 17:13	UJLA	ELLE
Dissolved	Analysis	6010C		1	85084	01/15/21 05:25	ULJC	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59493	10/28/20 09:53	SB	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59236	10/27/20 18:48	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 19:36	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 01:09	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:18	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: TB204-59

Lab Sample ID: 410-18029-6

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61497	11/03/20 14:45	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 21:04	AC3T	ELLE

Client Sample ID: GW152-484-204

Lab Sample ID: 410-18029-7

Date Collected: 10/21/20 12:40

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61497	11/03/20 19:49	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 21:21	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 19:28	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	63039	11/06/20 19:46	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:25	UCIG	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59493	10/28/20 09:56	SB	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59236	10/27/20 18:52	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:40	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 01:31	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:21	KGQ6	ELLE

Client Sample ID: GW151-484-204

Lab Sample ID: 410-18029-8

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61889	11/04/20 19:37	H9JD	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 21:38	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 20:04	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	63039	11/06/20 20:22	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:28	UCIG	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59493	10/28/20 10:00	SB	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59236	10/27/20 18:55	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:42	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 01:37	JB	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW151-484-204

Lab Sample ID: 410-18029-8

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	67079	11/17/20 12:22	KGQ6	ELLE

Client Sample ID: GW151-484-604

Lab Sample ID: 410-18029-9

Date Collected: 10/21/20 09:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61497	11/03/20 16:26	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 21:55	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	63039	11/06/20 22:28	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 22:47	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:32	UCIG	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59493	10/28/20 10:09	SB	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59236	10/27/20 18:58	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:51	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 01:53	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:23	KGQ6	ELLE

Client Sample ID: TB204-57

Lab Sample ID: 410-18029-10

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61497	11/03/20 15:05	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 22:12	AC3T	ELLE

Client Sample ID: GW060-204

Lab Sample ID: 410-18029-11

Date Collected: 10/20/20 14:56

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61497	11/03/20 15:26	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 22:29	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 23:23	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:35	UCIG	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW060-204

Lab Sample ID: 410-18029-11

Date Collected: 10/20/20 14:56

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59493	10/28/20 10:18	SB	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59236	10/27/20 19:14	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:52	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 02:00	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:25	KGQ6	ELLE

Client Sample ID: GW002-204

Lab Sample ID: 410-18029-12

Date Collected: 10/20/20 13:56

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61497	11/03/20 15:46	MJ8R	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 22:46	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		10	63039	11/06/20 23:41	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/06/20 23:59	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:38	UCIG	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59493	10/28/20 10:12	SB	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59236	10/27/20 19:02	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:45	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 02:13	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:26	KGQ6	ELLE

Client Sample ID: GW149-484-204

Lab Sample ID: 410-18029-13

Date Collected: 10/21/20 08:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		5	61753	11/04/20 02:25	TQ4J	ELLE
Total/NA	Analysis	8260C DOD	DL	50	61753	11/04/20 02:46	TQ4J	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		200	60671	10/31/20 10:44	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 01:11	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58472	10/26/20 09:43	UJL8	ELLE
Dissolved	Analysis	6010C		1	59178	10/27/20 16:41	UCIG	ELLE
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59493	10/28/20 10:15	SB	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Client Sample ID: GW149-484-204

Lab Sample ID: 410-18029-13

Date Collected: 10/21/20 08:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			58245	10/25/20 10:05	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59236	10/27/20 19:05	UCIG	ELLE
Total/NA	Prep	3005A			57627	10/23/20 06:08	UAMX	ELLE
Total/NA	Analysis	6020A		1	58407	10/23/20 18:54	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 01:23	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 12:29	KGQ6	ELLE

Client Sample ID: TB204-56

Lab Sample ID: 410-18029-14

Date Collected: 10/21/20 12:00

Matrix: Water

Date Received: 10/22/20 10:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61753	11/03/20 21:43	TQ4J	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/29/20 23:20	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	01-31-21

1

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18029-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-18029-1	GW153-484-204	Water	10/21/20 10:35	10/22/20 10:41	
410-18029-2	GW024-204	Water	10/21/20 13:21	10/22/20 10:41	
410-18029-3	GWS1-447-204	Water	10/21/20 09:50	10/22/20 10:41	
410-18029-4	TB204-58	Water	10/21/20 12:00	10/22/20 10:41	
410-18029-5	GWS8-451-204	Water	10/21/20 11:20	10/22/20 10:41	
410-18029-6	TB204-59	Water	10/21/20 12:00	10/22/20 10:41	
410-18029-7	GW152-484-204	Water	10/21/20 12:40	10/22/20 10:41	
410-18029-8	GW151-484-204	Water	10/21/20 09:00	10/22/20 10:41	
410-18029-9	GW151-484-604	Water	10/21/20 09:00	10/22/20 10:41	
410-18029-10	TB204-57	Water	10/21/20 12:00	10/22/20 10:41	
410-18029-11	GW060-204	Water	10/20/20 14:56	10/22/20 10:41	
410-18029-12	GW002-204	Water	10/20/20 13:56	10/22/20 10:41	
410-18029-13	GW149-484-204	Water	10/21/20 08:00	10/22/20 10:41	
410-18029-14	TB204-56	Water	10/21/20 12:00	10/22/20 10:41	

Eurofins Lancaster Laboratories Env, LLC



410-18029 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-153-484-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
LAB CONTACT: Kay Hower		KayHower@eurofinsUS.com		Eurofins		1 (717) 556-7258									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	(BTEX)	(BTEX)	(BTEX)	(BTEX)	(BTEX)	(BTEX)	(BTEX)	COMMENTS		
1	GW153-484-204	10-21-2020	1035	10	3	—	2	1	1*	1	1	1	<i>10-21-2020</i>		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i>				COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8545											
RELINQUISHED BY: _____ DATE _____ TIME _____				RECEIVED BY: _____ DATE _____ TIME _____											
Printed Name and Signature: <i>Gabeon Begaye</i>				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: _____											
Printed Name and Signature: _____				Printed Name and Signature: <i>Wesley Miller</i>											

qm

KAM

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-024-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM23208)	(RSK-175) Methane (RSK-175)	COMMENTS
1	GW024-204	10-21-2020	1321	10	3	—	—	2	1	1*	1	1	1	—	—	
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): D. Schneelk RELINQUISHED BY: D. Schneelk DATE: 10/21/2020 TIME: 1800 COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8545 RECEIVED BY: Wesley Miller DATE: 10/22/2020 TIME: 1041																

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-S1-447-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7268													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C) BTEX	(8260C) BTEX	ED8 (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M/2320B)	Carbon Dioxide (RSK-175)	Meatane (RSK-175)	COMMENTS
1	GWS1-447-204	10-21-2020	0950	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begay</i>										COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8545					
RELINQUISHED BY: _____ DATE: _____ TIME: _____										RECEIVED BY: _____ DATE: _____ TIME: _____					
Printed Name and Signature: <i>Galveston Begay</i> 10/21/2020 1800										Printed Name and Signature: _____					
Printed Name and Signature: _____										Printed Name and Signature: _____					
Printed Name and Signature: _____										Printed Name and Signature: <i>Wesley Miller Jr.</i> 10/22/2020 141					

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 564-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-TB204-58			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8200A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (351.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (253.2)		(SM2320B)
1	TB204-58	10-21-2020	1200	4	2	—	2								
2															
3															
4															
5															
Associated with: GW153-484-204 GW024-204 GW81-447-204															
SAMPLER(S): Nicole Peterson, J Livingston								COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8545							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
J Livingston				10/21/2020		1800									
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME	
								Wesley Miller				10/22/2020		1001	

gem

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-S8-451-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C) (6011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	Methane (83K-175)	COMMENTS	
1	GWS8-451-204	10-21-2020	1120	24	9	—	6	3	3*	1	1	1	—	—	Please see Comments for requested MS/MSD analytes	
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered Please run MS/MSD on the following analytes only: VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe																
SAMPLER(S): <i>G. Begaze</i>										COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8556						
RELINQUISHED BY:										RECEIVED BY:						
DATE: 10/21/2020 TIME: 1800										DATE: TIME:						
Printed Name and Signature: <i>Gabriel B. Begaze</i>										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature:						
Printed Name and Signature:										Printed Name and Signature: <i>Nicole Reiff</i> 10/22/20 1025						

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tera Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

COC NUMBER
COC-TB204-59

YEAR: 2020
QUARTER: 4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As,Pb,Cd,K,Na,Mg (8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-59	10-21-2020	1200	4	2	—	2								
2															
3															
4															
5															

Associated with:
GWS8-451-204
ER204-02-JL

SAMPLER(S): Nicole Peterson, J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8556			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: J Livingston		10/21/2020	1800	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature: Nicole Reiff		10/22/20	1028

qm

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

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F-2-1447

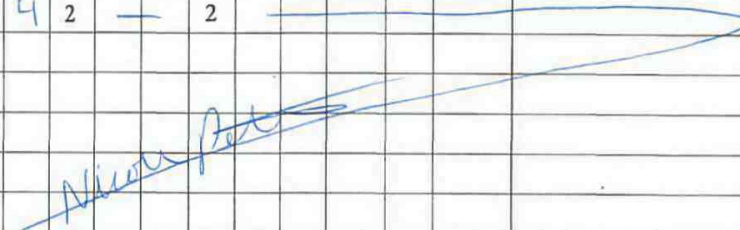
1/15/2021 (Rev. 2)

March 2021

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-152-484-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM4230B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW152-484-204	10-21-2020	1240	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8534					
RELINQUISHED BY:										RECEIVED BY:					
DATE: 10/21/2020 TIME: 1800										DATE: 10/22/20 TIME: 10:44					
Printed Name and Signature: <i>Gabriel Begaye</i>										Printed Name and Signature: <i>Chad Wettig</i>					
Printed Name and Signature:										Printed Name and Signature:					
Printed Name and Signature:										Printed Name and Signature:					

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-151-484-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity/Total, Carbonate, and Bicarbonate (353.2)	Carbon Dioxide (SM2320B)	Methane (MSK-175)	COMMENTS
1	GW151-484-204	10-21-2020	0900	10	3	—	2	1	1*	1	1	1			
2	GW151-484-604	10-21-2020	0900	10	3	—	2	1	1*	1	1	1			
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB204- 57															
SAMPLER(S): <i>G. Begaye</i>				COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8534											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: <i>Galveston Begaye</i>				10/21/2020		1800		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: <i>Chad Wetzig</i>				10/22/20		10:44	

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EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tera Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-TB204-57			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020		QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8220C)	BTEX (8230C)	BTEXN (8230C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, Bromide, Sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (82320B)		
1	TB204-57	10-21-2020	1200	4	2	—	2								
2															
3															
4															
5															
Associated with: GW151-484-204 GW151-484-604 GW152-484-204															
SAMPLER(S): Nicole Peterson, J Livingston				COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8534											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: J Livingston				10/21/2020		1800		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Chad Wetty				10/22/20		10:44	

gem

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-060-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lemon: tlemond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)					
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (353.2)	Carbon Dioxide (SM2320B)	COMMENTS	
1	GW060-204	10-20-2020	145C	10	3	—	2	1	1*	1	1	1	—		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
TB204- 56															
SAMPLER(S): D. Schneelk				COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8523											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: D. Schneelk				10/21/2020	1800	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Rutt				10/22/20	1039				

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-002-204									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)											
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258															
				ANALYSIS REQUIRED (Specify number of bottles)																			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (54230B)	Carbon Dioxide (85K-175)	Methane (85K-175)	COMMENTS								
1	GW002-204	10-20-2020	1356	10	3	—	2	1	1*	1	1	1											
2																							
3																							
4																							
5																							
6																							
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																							
SAMPLER(S): D. Schneelk				COURIER AND SHIPPING NUMBER: FedEx TB204- 56																			
RELINQUISHED BY: D. Schneelk				DATE: 10/21/2020				TIME: 1800				RECEIVED BY: Nicole Ruff				DATE: 10/24/20				TIME: 1039			
Printed Name and Signature: D. Schneelk																							
Printed Name and Signature:																							
Printed Name and Signature:																							
Printed Name and Signature:																							

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-149-484-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)						
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258														
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (542320B)	Carbon Dioxide (542320B)	(RSK-175) Methane (RSK-175)	COMMENTS
1	GW149-484-204	10-21-2020	0800	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>G. Begaye</i>										COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8523						
RELINQUISHED BY: _____ DATE: _____ TIME: _____										RECEIVED BY: _____ DATE: _____ TIME: _____						
Printed Name and Signature: <i>G. Begaye</i>										Printed Name and Signature: _____						
Printed Name and Signature: _____										Printed Name and Signature: _____						
Printed Name and Signature: _____										Printed Name and Signature: _____						
Printed Name and Signature: _____										Printed Name and Signature: <i>Mr. Nicole Ruff</i> 10/22/20 1039						

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				COC-TB204-56			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020					
						LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2280C)	BTEX (2280C)	EDB (2280C)	(2011)	Total As, Pb, Cu, Cd, Ni, Mg (2020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (253.2)		
1	TB204-56	10-21-2020	1200	4	2			2							
2															
3															
4															
5															
Associated with: GW060-204 GW002-204 GW149-484-204															
SAMPLER(S): Nicole Peterson, J Livingston								COURIER AND SHIPPING NUMBER: FedEx 7718 6244 8523							
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature:						Printed Name and Signature:									
J Livingston				10/21/2020	1800										
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
						Nicole Reiff				10/22/20	1059				

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-18029-1

Login Number: 18029**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-18162-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 1

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
12/18/2020 3:39:06 PM

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LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
12/18/2020 3:39:06 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	The reported value is from a dilution.
E	Result exceeded calibration range.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Glossary (Continued)

Abbreviation **These commonly used abbreviations may or may not be present in this report.**

LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Job ID: 410-18162-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-18162-1

Revision

The report (revision 1 [revision 2 for the EQuIS EDD] is being revised due to: The limits for the MS/MSD for Lead 6020A were corrected from 88-118% to 88-115% per the QSM.

Receipt

The samples were received on 10/23/2020 10:31 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.6° C, 0.6° C, 0.8° C and 1.2° C.

GC/MS VOA

Method 8260C DOD: The response for Vinyl chloride, Chloroethane and Chloromethane in the initial and/or continuing calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-61769. Due to the marginal nature of the outlier(s), the data are reported.

Method 8260C DOD: The Continuing Calibration Verification (CCV) associated with 410-61769 is compliant under 8260C/D criteria for 2-Hexanone. The software does not display the data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the QC passes the criteria.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GWS3-449-204 (410-18162-7), GWS2-451-204 (410-18162-8), TB204-63 (410-18162-9), GW028-204 (410-18162-11) and TB204-60 (410-18162-12). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: GWS2-451-204 (410-18162-8), GW028-204 (410-18162-11), GW028-204 (410-18162-11[MS]) and GW028-204 (410-18162-11[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C DOD: The response for 2-Butanone in the continuing calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-61889. Due to the marginal nature of the outlier(s), the data are reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: TB204-61 (410-18162-1), GWS4-446-204 (410-18162-2), GWS5-446-204 (410-18162-3), GWS5-446-604 (410-18162-4), TB204-62 (410-18162-5) and GWS7-451-204 (410-18162-6). The requested target analyte list includes Acrolein and Acrylonitrile, an acid-labile compound that degrades in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8011: The continuing calibration verification (CCV) associated with batch 410-60089 recovered above the upper control limit for Ethylene Dibromide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8011: The following samples required a dilution due to the nature of the sample matrix: GWS5-446-204 (410-18162-3), GWS5-446-604 (410-18162-4), GWS7-451-204 (410-18162-6), GWS3-449-204 (410-18162-7), GWS2-451-204 (410-18162-8) and GW028-204 (410-18162-11). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8011: The following samples were diluted to bring the concentration of target analytes within the calibration range: GWS5-446-204

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Job ID: 410-18162-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

(410-18162-3), GWS5-446-604 (410-18162-4), GWS7-451-204 (410-18162-6), GWS3-449-204 (410-18162-7), GWS2-451-204 (410-18162-8) and GW028-204 (410-18162-11). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6020A: The continuing calibration verification (CCV) associated with batch 410-61492 recovered above the upper control limit for As. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: TB204-61

Lab Sample ID: 410-18162-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.66	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

Client Sample ID: GWS4-446-204

Lab Sample ID: 410-18162-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.21	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Carbon tetrachloride	1.9	M	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Chloroform	1.0		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.021	J	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Bromide	2.2	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	290	D	200	150	100	mg/L	500		EPA 300.0 R2.1	Total/NA
Sulfate	340	J D	500	450	150	mg/L	500		EPA 300.0 R2.1	Total/NA
Calcium	190		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	29		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	5.0		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	65		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Arsenic	0.00078	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	98		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	98		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	6.5		0.50	0.45	0.20	mg/L	5		353.2	Total/NA

Client Sample ID: GWS5-446-204

Lab Sample ID: 410-18162-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	180	D	50	20	10	ug/L	10		8260C DOD	Total/NA
1,2-Dibromoethane	8.8	J D	10	5.0	2.0	ug/L	10		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	82	D	50	10	3.0	ug/L	10		8260C DOD	Total/NA
Acetone	17	J D	200	20	7.0	ug/L	10		8260C DOD	Total/NA
Benzene	1300	D	10	5.0	2.0	ug/L	10		8260C DOD	Total/NA
Ethylbenzene	1200	D	10	8.0	4.0	ug/L	10		8260C DOD	Total/NA
Isopropylbenzene	79	D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
m&p-Xylene	1800	D	50	20	10	ug/L	10		8260C DOD	Total/NA
Naphthalene	110	D	50	20	10	ug/L	10		8260C DOD	Total/NA
n-Butylbenzene	5.8	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
N-Propylbenzene	81	D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
o-Xylene	870	D	10	8.0	4.0	ug/L	10		8260C DOD	Total/NA
p-Isopropyltoluene	15	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
sec-Butylbenzene	13	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
Xylenes, Total	2700		60	20	14	ug/L	10		8260C DOD	Total/NA
Toluene - DL	7000	D	100	50	20	ug/L	100		8260C DOD	Total/NA
Ethylene Dibromide (1C)	8.9	D M	1.5	0.97	0.48	ug/L	50		8011	Total/NA
Chloride	23	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	65		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	11		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.9		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS5-446-204 (Continued)

Lab Sample ID: 410-18162-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Sodium	28		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Iron	0.88		0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	2.0		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.0025		0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00075		0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	240		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	240		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: GWS5-446-604

Lab Sample ID: 410-18162-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	180	D	50	20	10	ug/L	10			8260C DOD	Total/NA
1,2-Dibromoethane	8.5	J D	10	5.0	2.0	ug/L	10			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	82	D	50	10	3.0	ug/L	10			8260C DOD	Total/NA
Acetone	19	J D	200	20	7.0	ug/L	10			8260C DOD	Total/NA
Benzene	1300	D	10	5.0	2.0	ug/L	10			8260C DOD	Total/NA
Ethylbenzene	1200	D	10	8.0	4.0	ug/L	10			8260C DOD	Total/NA
Isopropylbenzene	80	D	50	5.0	2.0	ug/L	10			8260C DOD	Total/NA
m&p-Xylene	1900	D	50	20	10	ug/L	10			8260C DOD	Total/NA
Naphthalene	110	D	50	20	10	ug/L	10			8260C DOD	Total/NA
n-Butylbenzene	5.8	J D	50	5.0	2.0	ug/L	10			8260C DOD	Total/NA
N-Propylbenzene	83	D	50	5.0	2.0	ug/L	10			8260C DOD	Total/NA
o-Xylene	870	D	10	8.0	4.0	ug/L	10			8260C DOD	Total/NA
p-Isopropyltoluene	15	J D	50	5.0	2.0	ug/L	10			8260C DOD	Total/NA
sec-Butylbenzene	13	J D	50	5.0	2.0	ug/L	10			8260C DOD	Total/NA
Xylenes, Total	2800		60	20	14	ug/L	10			8260C DOD	Total/NA
Toluene - DL	6900	D	100	50	20	ug/L	100			8260C DOD	Total/NA
Ethylene Dibromide (1C)	8.4	D M	1.4	0.96	0.48	ug/L	50			8011	Total/NA
Chloride	23	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	65		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	11		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	27		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Iron	0.82		0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	2.0		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.0024		0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00050		0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	240		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	240		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: TB204-62

Lab Sample ID: 410-18162-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Toluene	0.66	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS7-451-204

Lab Sample ID: 410-18162-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	200	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
1,2-Dibromoethane	23	D	5.0	2.5	1.0	ug/L	5			8260C DOD	Total/NA
1,2-Dichloroethane	3.4	J D	5.0	2.5	1.5	ug/L	5			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	75	D	25	5.0	1.5	ug/L	5			8260C DOD	Total/NA
2-Butanone	11	J Q D	50	5.0	1.5	ug/L	5			8260C DOD	Total/NA
4-Methyl-2-pentanone	5.6	J D	50	5.0	2.5	ug/L	5			8260C DOD	Total/NA
Acetone	59	J D M	100	10	3.5	ug/L	5			8260C DOD	Total/NA
Benzene	310	D	5.0	2.5	1.0	ug/L	5			8260C DOD	Total/NA
Ethylbenzene	700	D	5.0	4.0	2.0	ug/L	5			8260C DOD	Total/NA
Isopropylbenzene	130	D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
m&p-Xylene	1400	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
Naphthalene	88	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
n-Butylbenzene	6.2	J D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
N-Propylbenzene	60	D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
o-Xylene	720	D	5.0	4.0	2.0	ug/L	5			8260C DOD	Total/NA
p-Isopropyltoluene	44	D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
sec-Butylbenzene	9.2	J D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
Xylenes, Total	2100		30	10	7.0	ug/L	5			8260C DOD	Total/NA
Toluene - DL	1600	D	50	25	10	ug/L	50			8260C DOD	Total/NA
Ethylene Dibromide (1C)	23	D	5.8	3.8	1.9	ug/L	200			8011	Total/NA
Bromide	1.3	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	39	D	4.0	3.0	2.0	mg/L	10			EPA 300.0 R2.1	Total/NA
Sulfate	3.7	J D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	100		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	17		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.2		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	38		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Iron	0.15	J	0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	2.9		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.0061		0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00027	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	330		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	330		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: GWS3-449-204

Lab Sample ID: 410-18162-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	35	D	10	4.0	2.0	ug/L	2			8260C DOD	Total/NA
1,2-Dichloroethane	4.1	D	2.0	1.0	0.60	ug/L	2			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	40	D	10	2.0	0.60	ug/L	2			8260C DOD	Total/NA
2-Butanone	7.0	J D	20	2.0	0.60	ug/L	2			8260C DOD	Total/NA
Acetone	45	D	40	4.0	1.4	ug/L	2			8260C DOD	Total/NA
Benzene	540	D	2.0	1.0	0.40	ug/L	2			8260C DOD	Total/NA
Ethylbenzene	12	D	2.0	1.6	0.80	ug/L	2			8260C DOD	Total/NA
Isopropylbenzene	72	D	10	1.0	0.40	ug/L	2			8260C DOD	Total/NA
m&p-Xylene	25	D	10	4.0	2.0	ug/L	2			8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS3-449-204 (Continued)

Lab Sample ID: 410-18162-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	0.80	J D	2.0	1.0	0.40	ug/L	2		8260C DOD	Total/NA
Naphthalene	36	D	10	4.0	2.0	ug/L	2		8260C DOD	Total/NA
n-Butylbenzene	0.49	J D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
N-Propylbenzene	3.5	J D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
p-Isopropyltoluene	110	D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
sec-Butylbenzene	5.4	J D	10	1.0	0.40	ug/L	2		8260C DOD	Total/NA
Toluene	5.1	D	2.0	1.0	0.40	ug/L	2		8260C DOD	Total/NA
o-Xylene - DL	700	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
Xylenes, Total - DL	730		120	40	28	ug/L	20		8260C DOD	Total/NA
Ethylene Dibromide (1C)	1.6	D M	0.58	0.38	0.19	ug/L	20		8011	Total/NA
Bromide	1.7	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	110	D	10	7.5	5.0	mg/L	25		EPA 300.0 R2.1	Total/NA
Calcium	92		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	15		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.1		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	36		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	2.1		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	3.1		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0048		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00017	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	310		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	310		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GWS2-451-204

Lab Sample ID: 410-18162-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	34	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
1,2-Dibromoethane	44	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
1,2-Dichloroethane	6.2	D	5.0	2.5	1.5	ug/L	5		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	20	J D	25	5.0	1.5	ug/L	5		8260C DOD	Total/NA
2-Butanone	150	D	50	5.0	1.5	ug/L	5		8260C DOD	Total/NA
2-Hexanone	710	Q D	50	5.0	1.5	ug/L	5		8260C DOD	Total/NA
4-Methyl-2-pentanone	430	D	50	5.0	2.5	ug/L	5		8260C DOD	Total/NA
Acetone	400	D	100	10	3.5	ug/L	5		8260C DOD	Total/NA
Benzene	730	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Ethylbenzene	18	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
Isopropylbenzene	100	D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
m&p-Xylene	120	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
Methyl tertiary butyl ether	1.3	J D M	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Naphthalene	66	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
N-Propylbenzene	3.0	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
o-Xylene	430	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
p-Isopropyltoluene	210	D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
sec-Butylbenzene	12	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Toluene	54	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS2-451-204 (Continued)

Lab Sample ID: 410-18162-8

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	550		30	10	7.0	ug/L	5		8260C DOD	Total/NA
Ethylene Dibromide (1C)	37	D	5.8	3.9	1.9	ug/L	200		8011	Total/NA
Bromide	1.7	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	89	D	8.0	6.0	4.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Sulfate	1.8	J D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	110		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	20		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	4.0		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	38		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Iron	4.4		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	5.8		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0033		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00090		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	280		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	280		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-63

Lab Sample ID: 410-18162-9

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.58	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

Client Sample ID: ER204-02

Lab Sample ID: 410-18162-10

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.50	J M	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Dibromochloromethane	0.73	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Calcium	0.13	J	0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Sodium	0.26	J	1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable

Client Sample ID: GW028-204

Lab Sample ID: 410-18162-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	130	D	50	20	10	ug/L	10		8260C DOD	Total/NA
1,2-Dibromoethane	29	D	10	5.0	2.0	ug/L	10		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	41	J D	50	10	3.0	ug/L	10		8260C DOD	Total/NA
2-Butanone	5.3	J D	100	10	3.0	ug/L	10		8260C DOD	Total/NA
4-Methyl-2-pentanone	25	J D	100	10	5.0	ug/L	10		8260C DOD	Total/NA
Ethylbenzene	840	D	10	8.0	4.0	ug/L	10		8260C DOD	Total/NA
Isopropylbenzene	75	D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
m&p-Xylene	1600	D	50	20	10	ug/L	10		8260C DOD	Total/NA
Naphthalene	76	D	50	20	10	ug/L	10		8260C DOD	Total/NA
n-Butylbenzene	2.0	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
N-Propylbenzene	34	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
o-Xylene	990	D	10	8.0	4.0	ug/L	10		8260C DOD	Total/NA
p-Isopropyltoluene	36	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
sec-Butylbenzene	27	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW028-204 (Continued)

Lab Sample ID: 410-18162-11

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	2600		60	20	14	ug/L	10		8260C DOD	Total/NA
Benzene - DL	5100	J1 D	100	50	20	ug/L	100		8260C DOD	Total/NA
Toluene - DL	10000	J1 D	100	50	20	ug/L	100		8260C DOD	Total/NA
Ethylene Dibromide (1C)	29	D M J1	5.7	3.8	1.9	ug/L	200		8011	Total/NA
Chloride	46	D	4.0	3.0	2.0	mg/L	10		EPA 300.0 R2.1	Total/NA
Sulfate	4.2	J D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	120	J1	0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	19	J1	0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	3.5		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	39	J1	1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Iron	3.2	J1	0.21	0.10	0.041	mg/L	1		6010C	Recoverable Dissolved
Manganese	4.0	J1	0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Lead	0.00043	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	390		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	390		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: TB204-60

Lab Sample ID: 410-18162-12

No Detections.

Client Sample ID: GW008-204

Lab Sample ID: 410-18162-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	63	J D	100	40	20	ug/L	20		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	19	J D	100	20	6.0	ug/L	20		8260C DOD	Total/NA
2-Butanone	39	J D	200	20	6.0	ug/L	20		8260C DOD	Total/NA
2-Hexanone	380	D	200	20	6.0	ug/L	20		8260C DOD	Total/NA
4-Methyl-2-pentanone	230	D	200	20	10	ug/L	20		8260C DOD	Total/NA
Acetone	110	J D	400	40	14	ug/L	20		8260C DOD	Total/NA
Ethylbenzene	310	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
Isopropylbenzene	80	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
m&p-Xylene	640	D	100	40	20	ug/L	20		8260C DOD	Total/NA
Naphthalene	29	J D	100	40	20	ug/L	20		8260C DOD	Total/NA
N-Propylbenzene	18	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
o-Xylene	230	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
p-Isopropyltoluene	17	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
Toluene	5500	D	20	10	4.0	ug/L	20		8260C DOD	Total/NA
Xylenes, Total	870		120	40	28	ug/L	20		8260C DOD	Total/NA
Benzene - DL	11000	D	200	100	40	ug/L	200		8260C DOD	Total/NA
Ethylene Dibromide (1C)	8.0	D M	2.9	1.9	0.96	ug/L	100		8011	Total/NA
Bromide	2.1	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	91	D	8.0	6.0	4.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Sulfate	1.6	J D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	150		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	24		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW008-204 (Continued)

Lab Sample ID: 410-18162-13

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3.6		0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	39		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Iron	8.3		0.21	0.10	0.041	mg/L	1		6010C	Recoverable Dissolved
Manganese	7.3		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00048	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	400		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	400		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW008-604

Lab Sample ID: 410-18162-14

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	61	J D	100	40	20	ug/L	20		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	18	J D	100	20	6.0	ug/L	20		8260C DOD	Total/NA
2-Butanone	35	J D	200	20	6.0	ug/L	20		8260C DOD	Total/NA
2-Hexanone	390	D	200	20	6.0	ug/L	20		8260C DOD	Total/NA
4-Methyl-2-pentanone	270	D	200	20	10	ug/L	20		8260C DOD	Total/NA
Acetone	96	J D	400	40	14	ug/L	20		8260C DOD	Total/NA
Ethylbenzene	310	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
Isopropylbenzene	83	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
m&p-Xylene	660	D	100	40	20	ug/L	20		8260C DOD	Total/NA
Naphthalene	30	J D	100	40	20	ug/L	20		8260C DOD	Total/NA
N-Propylbenzene	18	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
o-Xylene	220	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
p-Isopropyltoluene	18	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
Toluene	5700	D	20	10	4.0	ug/L	20		8260C DOD	Total/NA
Xylenes, Total	880		120	40	28	ug/L	20		8260C DOD	Total/NA
Benzene - DL	11000	D	200	100	40	ug/L	200		8260C DOD	Total/NA
Ethylene Dibromide (1C)	8.3	D M	2.9	1.9	0.96	ug/L	100		8011	Total/NA
Bromide	1.7	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	89	D	10	7.5	5.0	mg/L	25		EPA 300.0 R2.1	Total/NA
Sulfate	1.9	J D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	140		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	24		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	3.5		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	38		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Iron	8.2		0.21	0.10	0.041	mg/L	1		6010C	Recoverable Dissolved
Manganese	7.2		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00049	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	390		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	390		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS9-447-204

Lab Sample ID: 410-18162-15

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	45		5.0	2.0	1.0	ug/L	1			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	1.3	J	5.0	1.0	0.30	ug/L	1			8260C DOD	Total/NA
Acetone	2.9	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Benzene	36		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Ethylbenzene	52		1.0	0.80	0.40	ug/L	1			8260C DOD	Total/NA
Isopropylbenzene	11		5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
m&p-Xylene	2.1	J	5.0	2.0	1.0	ug/L	1			8260C DOD	Total/NA
Naphthalene	13		5.0	2.0	1.0	ug/L	1			8260C DOD	Total/NA
N-Propylbenzene	14		5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
o-Xylene	63		1.0	0.80	0.40	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	12		5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	3.6	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Toluene	1.9		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Xylenes, Total	65		6.0	2.0	1.4	ug/L	1			8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.018	J M	0.029	0.019	0.0096	ug/L	1			8011	Total/NA
Chloride	79	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	370	D	50	45	15	mg/L	50			EPA 300.0 R2.1	Total/NA
Calcium	190		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	28		0.10	0.075	0.040	mg/L	1			6010C	Recoverable
											Total
											Recoverable
Potassium	4.5		0.50	0.38	0.20	mg/L	1			6010C	Total
Sodium	41		1.0	0.50	0.24	mg/L	1			6010C	Recoverable
											Total
											Recoverable
Iron	4.2		0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	1.8		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.0023		0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	300		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	300		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: TB204-61

Lab Sample ID: 410-18162-1

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:31	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 12:31	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 12:31	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 12:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 12:31	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:31	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 12:31	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:31	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		11/04/20 12:31	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 12:31	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 12:31	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/04/20 12:31	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 12:31	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 12:31	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 12:31	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:31	1
Carbon disulfide	0.50	U M	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 12:31	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 12:31	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: TB204-61

Lab Sample ID: 410-18162-1

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 12:31	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:31	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 12:31	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 12:31	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:31	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 12:31	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Toluene	0.66	J	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 12:31	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:31	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 12:31	1
4-Bromofluorobenzene (Surr)	92		85 - 114		11/04/20 12:31	1
Dibromofluoromethane (Surr)	96		80 - 119		11/04/20 12:31	1
Toluene-d8 (Surr)	99		89 - 112		11/04/20 12:31	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U M	0.029	0.019	0.0095	ug/L		11/02/20 18:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	88		46 - 136	10/31/20 00:51	11/02/20 18:59	1
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/31/20 00:51	11/02/20 18:59	1

Client Sample ID: GWS4-446-204

Lab Sample ID: 410-18162-2

Date Collected: 10/22/20 08:20

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 15:54	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 15:54	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 15:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS4-446-204

Lab Sample ID: 410-18162-2

Date Collected: 10/22/20 08:20

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 15:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 15:54	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 15:54	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 15:54	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 15:54	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		11/04/20 15:54	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 15:54	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 15:54	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/04/20 15:54	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 15:54	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 15:54	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
Bromodichloromethane	0.21	J	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 15:54	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 15:54	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
Carbon tetrachloride	1.9	M	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Chloroform	1.0		1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 15:54	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 15:54	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 15:54	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 15:54	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 15:54	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 15:54	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 15:54	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS4-446-204

Lab Sample ID: 410-18162-2

Date Collected: 10/22/20 08:20

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 15:54	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 15:54	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 15:54	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		11/04/20 15:54	1
4-Bromofluorobenzene (Surr)	90		85 - 114		11/04/20 15:54	1
Dibromofluoromethane (Surr)	98		80 - 119		11/04/20 15:54	1
Toluene-d8 (Surr)	98		89 - 112		11/04/20 15:54	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.021	J	0.029	0.019	0.0096	ug/L		11/02/20 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	80	M	46 - 136	10/31/20 00:51	11/02/20 19:17	1
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/31/20 00:51	11/02/20 19:17	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.2	J D	2.5	2.0	1.3	mg/L		11/16/20 23:19	5
Chloride	290	D	200	150	100	mg/L		11/16/20 23:37	500
Sulfate	340	J D	500	450	150	mg/L		11/16/20 23:37	500

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	190		0.20	0.15	0.096	mg/L		10/27/20 22:39	1
Magnesium	29		0.10	0.075	0.040	mg/L		10/27/20 22:39	1
Potassium	5.0		0.50	0.38	0.20	mg/L		10/27/20 22:39	1
Sodium	65		1.0	0.50	0.24	mg/L		10/27/20 22:39	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/26/20 08:55	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/26/20 08:55	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00078	J	0.0020	0.0016	0.00068	mg/L		10/27/20 14:56	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/27/20 14:56	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	98		8.0	6.0	2.6	mg/L		10/27/20 05:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS4-446-204

Lab Sample ID: 410-18162-2

Date Collected: 10/22/20 08:20

Matrix: Water

Date Received: 10/23/20 10:31

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 05:17	1
Total Alkalinity as CaCO ₃ to pH 4.5	98		8.0	6.0	2.6	mg/L		10/27/20 05:17	1
Nitrate Nitrite as N	6.5		0.50	0.45	0.20	mg/L		11/17/20 13:05	5

Client Sample ID: GWS5-446-204

Lab Sample ID: 410-18162-3

Date Collected: 10/22/20 11:15

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
1,1,1-Trichloroethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 17:36	10
1,1,2,2-Tetrachloroethane	5.0	U M	10	5.0	2.0	ug/L		11/04/20 17:36	10
1,1,2-Trichloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
1,1-Dichloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
1,1-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
1,1-Dichloropropene	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
1,2,3-Trichlorobenzene	10	U	50	10	4.0	ug/L		11/04/20 17:36	10
1,2,3-Trichloropropane	5.0	U M	50	5.0	2.0	ug/L		11/04/20 17:36	10
1,2,4-Trichlorobenzene	10	U	50	10	3.0	ug/L		11/04/20 17:36	10
1,2,4-Trimethylbenzene	180	D	50	20	10	ug/L		11/04/20 17:36	10
1,2-Dibromo-3-Chloropropane	10	U	50	10	3.0	ug/L		11/04/20 17:36	10
1,2-Dibromoethane	8.8	J D	10	5.0	2.0	ug/L		11/04/20 17:36	10
1,2-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
1,2-Dichloroethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 17:36	10
1,2-Dichloropropane	5.0	U M	10	5.0	2.0	ug/L		11/04/20 17:36	10
1,3,5-Trimethylbenzene	82	D	50	10	3.0	ug/L		11/04/20 17:36	10
1,3-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
1,3-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
1,4-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
2,2-Dichloropropane	5.0	U	10	5.0	3.0	ug/L		11/04/20 17:36	10
2-Butanone	10	U Q	100	10	3.0	ug/L		11/04/20 17:36	10
2-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
2-Hexanone	10	U M	100	10	3.0	ug/L		11/04/20 17:36	10
4-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
4-Methyl-2-pentanone	10	U M	100	10	5.0	ug/L		11/04/20 17:36	10
Acetone	17	J D	200	20	7.0	ug/L		11/04/20 17:36	10
Acrolein	50	U	1000	50	30	ug/L		11/04/20 17:36	10
Acrylonitrile	10	U	200	10	3.0	ug/L		11/04/20 17:36	10
Benzene	1300	D	10	5.0	2.0	ug/L		11/04/20 17:36	10
Bromobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
Bromochloromethane	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
Bromodichloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Bromoform	20	U	40	20	10	ug/L		11/04/20 17:36	10
Bromomethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 17:36	10
Carbon disulfide	5.0	U	50	5.0	2.0	ug/L		11/04/20 17:36	10
Carbon tetrachloride	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Chlorobenzene	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Chloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Chloroform	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS5-446-204

Lab Sample ID: 410-18162-3

Date Collected: 10/22/20 11:15

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
cis-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
cis-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Dibromochloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Dibromomethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Dichlorodifluoromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Ethylbenzene	1200	D	10	8.0	4.0	ug/L		11/04/20 17:36	10
Hexachlorobutadiene	40	U	50	40	20	ug/L		11/04/20 17:36	10
Isopropylbenzene	79	D	50	5.0	2.0	ug/L		11/04/20 17:36	10
m&p-Xylene	1800	D	50	20	10	ug/L		11/04/20 17:36	10
Methyl tertiary butyl ether	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Methylene Chloride	5.0	U	10	5.0	3.0	ug/L		11/04/20 17:36	10
Naphthalene	110	D	50	20	10	ug/L		11/04/20 17:36	10
n-Butylbenzene	5.8	J D	50	5.0	2.0	ug/L		11/04/20 17:36	10
N-Propylbenzene	81	D	50	5.0	2.0	ug/L		11/04/20 17:36	10
o-Xylene	870	D	10	8.0	4.0	ug/L		11/04/20 17:36	10
p-Isopropyltoluene	15	J D	50	5.0	2.0	ug/L		11/04/20 17:36	10
sec-Butylbenzene	13	J D	50	5.0	2.0	ug/L		11/04/20 17:36	10
Styrene	5.0	U M	50	5.0	2.0	ug/L		11/04/20 17:36	10
tert-Butylbenzene	10	U	50	10	3.0	ug/L		11/04/20 17:36	10
Tetrachloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
trans-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
trans-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Trichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Trichlorofluoromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Vinyl acetate	20	U	100	20	7.0	ug/L		11/04/20 17:36	10
Vinyl chloride	5.0	U	10	5.0	2.0	ug/L		11/04/20 17:36	10
Xylenes, Total	2700		60	20	14	ug/L		11/04/20 17:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/04/20 17:36	10
4-Bromofluorobenzene (Surr)	94		85 - 114		11/04/20 17:36	10
Dibromofluoromethane (Surr)	94		80 - 119		11/04/20 17:36	10
Toluene-d8 (Surr)	99		89 - 112		11/04/20 17:36	10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Toluene	7000	D	100	50	20	ug/L		11/04/20 17:56	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		11/04/20 17:56	100
4-Bromofluorobenzene (Surr)	93		85 - 114		11/04/20 17:56	100
Dibromofluoromethane (Surr)	96		80 - 119		11/04/20 17:56	100
Toluene-d8 (Surr)	99		89 - 112		11/04/20 17:56	100

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	8.9	D M	1.5	0.97	0.48	ug/L		11/04/20 00:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	574	J1 Q	46 - 136	10/31/20 00:51	11/04/20 00:19	50

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS5-446-204

Lab Sample ID: 410-18162-3

Date Collected: 10/22/20 11:15

Matrix: Water

Date Received: 10/23/20 10:31

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/07/20 02:23	5
Chloride	23	D	2.0	1.5	1.0	mg/L		11/07/20 02:23	5
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/07/20 02:23	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	65		0.20	0.15	0.096	mg/L		10/27/20 22:42	1
Magnesium	11		0.10	0.075	0.040	mg/L		10/27/20 22:42	1
Potassium	2.9		0.50	0.38	0.20	mg/L		10/27/20 22:42	1
Sodium	28		1.0	0.50	0.24	mg/L		10/27/20 22:42	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.88		0.21	0.10	0.041	mg/L		10/26/20 08:58	1
Manganese	2.0		0.010	0.0052	0.0031	mg/L		10/26/20 08:58	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0025		0.0020	0.0016	0.00068	mg/L		10/26/20 19:47	1
Lead	0.00075		0.00050	0.00025	0.000071	mg/L		10/26/20 19:47	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	240		8.0	6.0	2.6	mg/L		10/27/20 04:50	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 04:50	1
Total Alkalinity as CaCO ₃ to pH 4.5	240		8.0	6.0	2.6	mg/L		10/27/20 04:50	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:06	1

Client Sample ID: GWS5-446-604

Lab Sample ID: 410-18162-4

Date Collected: 10/22/20 11:15

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
1,1,1-Trichloroethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 18:17	10
1,1,2,2-Tetrachloroethane	5.0	U M	10	5.0	2.0	ug/L		11/04/20 18:17	10
1,1,2-Trichloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
1,1-Dichloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
1,1-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
1,1-Dichloropropene	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
1,2,3-Trichlorobenzene	10	U	50	10	4.0	ug/L		11/04/20 18:17	10
1,2,3-Trichloropropane	5.0	U M	50	5.0	2.0	ug/L		11/04/20 18:17	10
1,2,4-Trichlorobenzene	10	U	50	10	3.0	ug/L		11/04/20 18:17	10
1,2,4-Trimethylbenzene	180	D	50	20	10	ug/L		11/04/20 18:17	10
1,2-Dibromo-3-Chloropropane	10	U	50	10	3.0	ug/L		11/04/20 18:17	10
1,2-Dibromoethane	8.5	J D	10	5.0	2.0	ug/L		11/04/20 18:17	10
1,2-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
1,2-Dichloroethane	5.0	U M	10	5.0	3.0	ug/L		11/04/20 18:17	10
1,2-Dichloropropane	5.0	U M	10	5.0	2.0	ug/L		11/04/20 18:17	10
1,3,5-Trimethylbenzene	82	D	50	10	3.0	ug/L		11/04/20 18:17	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS5-446-604

Lab Sample ID: 410-18162-4

Date Collected: 10/22/20 11:15

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
1,3-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
1,4-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
2,2-Dichloropropane	5.0	U	10	5.0	3.0	ug/L		11/04/20 18:17	10
2-Butanone	10	U Q	100	10	3.0	ug/L		11/04/20 18:17	10
2-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
2-Hexanone	10	U M	100	10	3.0	ug/L		11/04/20 18:17	10
4-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
4-Methyl-2-pentanone	10	U M	100	10	5.0	ug/L		11/04/20 18:17	10
Acetone	19	J D	200	20	7.0	ug/L		11/04/20 18:17	10
Acrolein	50	U	1000	50	30	ug/L		11/04/20 18:17	10
Acrylonitrile	10	U	200	10	3.0	ug/L		11/04/20 18:17	10
Benzene	1300	D	10	5.0	2.0	ug/L		11/04/20 18:17	10
Bromobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
Bromochloromethane	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
Bromodichloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Bromoform	20	U	40	20	10	ug/L		11/04/20 18:17	10
Bromomethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 18:17	10
Carbon disulfide	5.0	U	50	5.0	2.0	ug/L		11/04/20 18:17	10
Carbon tetrachloride	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Chlorobenzene	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Chloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Chloroform	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Chloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
cis-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
cis-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Dibromochloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Dibromomethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Dichlorodifluoromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Ethylbenzene	1200	D	10	8.0	4.0	ug/L		11/04/20 18:17	10
Hexachlorobutadiene	40	U	50	40	20	ug/L		11/04/20 18:17	10
Isopropylbenzene	80	D	50	5.0	2.0	ug/L		11/04/20 18:17	10
m&p-Xylene	1900	D	50	20	10	ug/L		11/04/20 18:17	10
Methyl tertiary butyl ether	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Methylene Chloride	5.0	U	10	5.0	3.0	ug/L		11/04/20 18:17	10
Naphthalene	110	D	50	20	10	ug/L		11/04/20 18:17	10
n-Butylbenzene	5.8	J D	50	5.0	2.0	ug/L		11/04/20 18:17	10
N-Propylbenzene	83	D	50	5.0	2.0	ug/L		11/04/20 18:17	10
o-Xylene	870	D	10	8.0	4.0	ug/L		11/04/20 18:17	10
p-Isopropyltoluene	15	J D	50	5.0	2.0	ug/L		11/04/20 18:17	10
sec-Butylbenzene	13	J D	50	5.0	2.0	ug/L		11/04/20 18:17	10
Styrene	5.0	U M	50	5.0	2.0	ug/L		11/04/20 18:17	10
tert-Butylbenzene	10	U	50	10	3.0	ug/L		11/04/20 18:17	10
Tetrachloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
trans-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
trans-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Trichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Trichlorofluoromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Vinyl acetate	20	U	100	20	7.0	ug/L		11/04/20 18:17	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS5-446-604

Lab Sample ID: 410-18162-4

Date Collected: 10/22/20 11:15

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl chloride	5.0	U	10	5.0	2.0	ug/L		11/04/20 18:17	10
Xylenes, Total	2800		60	20	14	ug/L		11/04/20 18:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 18:17	10
4-Bromofluorobenzene (Surr)	94		85 - 114		11/04/20 18:17	10
Dibromofluoromethane (Surr)	95		80 - 119		11/04/20 18:17	10
Toluene-d8 (Surr)	98		89 - 112		11/04/20 18:17	10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Toluene	6900	D	100	50	20	ug/L		11/04/20 18:37	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/04/20 18:37	100
4-Bromofluorobenzene (Surr)	92		85 - 114		11/04/20 18:37	100
Dibromofluoromethane (Surr)	96		80 - 119		11/04/20 18:37	100
Toluene-d8 (Surr)	99		89 - 112		11/04/20 18:37	100

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	8.4	D M	1.4	0.96	0.48	ug/L		11/04/20 00:36	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	203	J1 Q	46 - 136	10/31/20 00:51	11/04/20 00:36	50

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/07/20 02:59	5
Chloride	23	D	2.0	1.5	1.0	mg/L		11/07/20 02:59	5
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/07/20 02:59	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	65		0.20	0.15	0.096	mg/L		10/27/20 22:45	1
Magnesium	11		0.10	0.075	0.040	mg/L		10/27/20 22:45	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/27/20 22:45	1
Sodium	27		1.0	0.50	0.24	mg/L		10/27/20 22:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.82		0.21	0.10	0.041	mg/L		10/26/20 09:01	1
Manganese	2.0		0.010	0.0052	0.0031	mg/L		10/26/20 09:01	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0024		0.0020	0.0016	0.00068	mg/L		10/26/20 19:49	1
Lead	0.00050		0.00050	0.00025	0.000071	mg/L		10/26/20 19:49	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	240		8.0	6.0	2.6	mg/L		10/27/20 04:43	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS5-446-604

Lab Sample ID: 410-18162-4

Date Collected: 10/22/20 11:15

Matrix: Water

Date Received: 10/23/20 10:31

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 04:43	1
Total Alkalinity as CaCO ₃ to pH 4.5	240		8.0	6.0	2.6	mg/L		10/27/20 04:43	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:09	1

Client Sample ID: TB204-62

Lab Sample ID: 410-18162-5

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:52	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 12:52	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 12:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 12:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 12:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 12:52	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:52	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		11/04/20 12:52	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 12:52	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 12:52	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/04/20 12:52	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 12:52	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 12:52	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 12:52	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:52	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: TB204-62

Lab Sample ID: 410-18162-5

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 12:52	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 12:52	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 12:52	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 12:52	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 12:52	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 12:52	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 12:52	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 12:52	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Toluene	0.66	J	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 12:52	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 12:52	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 12:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	M	81 - 118		11/04/20 12:52	1
4-Bromofluorobenzene (Surr)	90		85 - 114		11/04/20 12:52	1
Dibromofluoromethane (Surr)	97		80 - 119		11/04/20 12:52	1
Toluene-d8 (Surr)	98		89 - 112		11/04/20 12:52	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		11/02/20 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136	10/31/20 00:51	11/02/20 20:07	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/31/20 00:51	11/02/20 20:07	1

Client Sample ID: GWS7-451-204

Lab Sample ID: 410-18162-6

Date Collected: 10/22/20 10:30

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS7-451-204

Lab Sample ID: 410-18162-6

Date Collected: 10/22/20 10:30

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 16:55	5
1,1,2,2-Tetrachloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
1,1,2-Trichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
1,1-Dichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
1,1-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
1,1-Dichloropropene	2.5	U	25	2.5	1.0	ug/L		11/04/20 16:55	5
1,2,3-Trichlorobenzene	5.0	U	25	5.0	2.0	ug/L		11/04/20 16:55	5
1,2,3-Trichloropropane	2.5	U M	25	2.5	1.0	ug/L		11/04/20 16:55	5
1,2,4-Trichlorobenzene	5.0	U	25	5.0	1.5	ug/L		11/04/20 16:55	5
1,2,4-Trimethylbenzene	200	D	25	10	5.0	ug/L		11/04/20 16:55	5
1,2-Dibromo-3-Chloropropane	5.0	U	25	5.0	1.5	ug/L		11/04/20 16:55	5
1,2-Dibromoethane	23	D	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
1,2-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 16:55	5
1,2-Dichloroethane	3.4	J D	5.0	2.5	1.5	ug/L		11/04/20 16:55	5
1,2-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
1,3,5-Trimethylbenzene	75	D	25	5.0	1.5	ug/L		11/04/20 16:55	5
1,3-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 16:55	5
1,3-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
1,4-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 16:55	5
2,2-Dichloropropane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 16:55	5
2-Butanone	11	J Q D	50	5.0	1.5	ug/L		11/04/20 16:55	5
2-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/04/20 16:55	5
2-Hexanone	5.0	U M	50	5.0	1.5	ug/L		11/04/20 16:55	5
4-Chlorotoluene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 16:55	5
4-Methyl-2-pentanone	5.6	J D	50	5.0	2.5	ug/L		11/04/20 16:55	5
Acetone	59	J D M	100	10	3.5	ug/L		11/04/20 16:55	5
Acrolein	25	U	500	25	15	ug/L		11/04/20 16:55	5
Acrylonitrile	5.0	U	100	5.0	1.5	ug/L		11/04/20 16:55	5
Benzene	310	D	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Bromobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 16:55	5
Bromochloromethane	2.5	U	25	2.5	1.0	ug/L		11/04/20 16:55	5
Bromodichloromethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Bromoform	10	U	20	10	5.0	ug/L		11/04/20 16:55	5
Bromomethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 16:55	5
Carbon disulfide	2.5	U	25	2.5	1.0	ug/L		11/04/20 16:55	5
Carbon tetrachloride	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Chlorobenzene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Chloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Chloroform	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Chloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
cis-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Dibromochloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Dibromomethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Dichlorodifluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Ethylbenzene	700	D	5.0	4.0	2.0	ug/L		11/04/20 16:55	5
Hexachlorobutadiene	20	U	25	20	10	ug/L		11/04/20 16:55	5
Isopropylbenzene	130	D	25	2.5	1.0	ug/L		11/04/20 16:55	5
m&p-Xylene	1400	D	25	10	5.0	ug/L		11/04/20 16:55	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS7-451-204

Lab Sample ID: 410-18162-6

Date Collected: 10/22/20 10:30

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methyl tertiary butyl ether	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Methylene Chloride	2.5	U M	5.0	2.5	1.5	ug/L		11/04/20 16:55	5
Naphthalene	88	D	25	10	5.0	ug/L		11/04/20 16:55	5
n-Butylbenzene	6.2	J D	25	2.5	1.0	ug/L		11/04/20 16:55	5
N-Propylbenzene	60	D	25	2.5	1.0	ug/L		11/04/20 16:55	5
o-Xylene	720	D	5.0	4.0	2.0	ug/L		11/04/20 16:55	5
p-Isopropyltoluene	44	D	25	2.5	1.0	ug/L		11/04/20 16:55	5
sec-Butylbenzene	9.2	J D	25	2.5	1.0	ug/L		11/04/20 16:55	5
Styrene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 16:55	5
tert-Butylbenzene	5.0	U	25	5.0	1.5	ug/L		11/04/20 16:55	5
Tetrachloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Trichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Vinyl acetate	10	U	50	10	3.5	ug/L		11/04/20 16:55	5
Vinyl chloride	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 16:55	5
Xylenes, Total	2100		30	10	7.0	ug/L		11/04/20 16:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/04/20 16:55	5
4-Bromofluorobenzene (Surr)	95		85 - 114		11/04/20 16:55	5
Dibromofluoromethane (Surr)	95		80 - 119		11/04/20 16:55	5
Toluene-d8 (Surr)	100		89 - 112		11/04/20 16:55	5

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Toluene	1600	D	50	25	10	ug/L		11/04/20 17:15	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 17:15	50
4-Bromofluorobenzene (Surr)	94		85 - 114		11/04/20 17:15	50
Dibromofluoromethane (Surr)	95		80 - 119		11/04/20 17:15	50
Toluene-d8 (Surr)	99		89 - 112		11/04/20 17:15	50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	23	D	5.8	3.8	1.9	ug/L		11/04/20 00:52	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (2C)	0	Q	46 - 136	10/31/20 00:51	11/04/20 00:52	200

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.3	J D	2.5	2.0	1.3	mg/L		11/07/20 03:35	5
Chloride	39	D	4.0	3.0	2.0	mg/L		11/07/20 03:17	10
Sulfate	3.7	J D	5.0	4.5	1.5	mg/L		11/07/20 03:35	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	100		0.20	0.15	0.096	mg/L		10/27/20 22:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS7-451-204

Lab Sample ID: 410-18162-6

Date Collected: 10/22/20 10:30

Matrix: Water

Date Received: 10/23/20 10:31

Method: 6010C - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Magnesium	17		0.10	0.075	0.040	mg/L		10/27/20 22:48	1
Potassium	3.2		0.50	0.38	0.20	mg/L		10/27/20 22:48	1
Sodium	38		1.0	0.50	0.24	mg/L		10/27/20 22:48	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.15	J	0.21	0.10	0.041	mg/L		10/26/20 09:04	1
Manganese	2.9		0.010	0.0052	0.0031	mg/L		10/26/20 09:04	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0061		0.0020	0.0016	0.00068	mg/L		10/26/20 19:54	1
Lead	0.00027	J	0.00050	0.00025	0.000071	mg/L		10/26/20 19:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	330		8.0	6.0	2.6	mg/L		10/27/20 04:57	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 04:57	1
Total Alkalinity as CaCO ₃ to pH 4.5	330		8.0	6.0	2.6	mg/L		10/27/20 04:57	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:11	1

Client Sample ID: GWS3-449-204

Lab Sample ID: 410-18162-7

Date Collected: 10/22/20 08:45

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
1,1,1-Trichloroethane	1.0	U	2.0	1.0	0.60	ug/L		11/04/20 04:01	2
1,1,2,2-Tetrachloroethane	1.0	U M	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
1,1,2-Trichloroethane	1.0	U M	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
1,1-Dichloroethane	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
1,1-Dichloroethene	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
1,1-Dichloropropene	1.0	U	10	1.0	0.40	ug/L		11/04/20 04:01	2
1,2,3-Trichlorobenzene	2.0	U	10	2.0	0.80	ug/L		11/04/20 04:01	2
1,2,3-Trichloropropane	1.0	U M	10	1.0	0.40	ug/L		11/04/20 04:01	2
1,2,4-Trichlorobenzene	2.0	U	10	2.0	0.60	ug/L		11/04/20 04:01	2
1,2,4-Trimethylbenzene	35	D	10	4.0	2.0	ug/L		11/04/20 04:01	2
1,2-Dibromo-3-Chloropropane	2.0	U M	10	2.0	0.60	ug/L		11/04/20 04:01	2
1,2-Dibromoethane	1.0	U M	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
1,2-Dichlorobenzene	1.0	U	10	1.0	0.40	ug/L		11/04/20 04:01	2
1,2-Dichloroethane	4.1	D	2.0	1.0	0.60	ug/L		11/04/20 04:01	2
1,2-Dichloropropane	1.0	U M	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
1,3,5-Trimethylbenzene	40	D	10	2.0	0.60	ug/L		11/04/20 04:01	2
1,3-Dichlorobenzene	1.0	U	10	1.0	0.40	ug/L		11/04/20 04:01	2
1,3-Dichloropropane	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
1,4-Dichlorobenzene	1.0	U	10	1.0	0.40	ug/L		11/04/20 04:01	2
2,2-Dichloropropane	1.0	U	2.0	1.0	0.60	ug/L		11/04/20 04:01	2
2-Butanone	7.0	J D	20	2.0	0.60	ug/L		11/04/20 04:01	2
2-Chlorotoluene	1.0	U M	10	1.0	0.40	ug/L		11/04/20 04:01	2
2-Hexanone	2.0	U Q M	20	2.0	0.60	ug/L		11/04/20 04:01	2

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS3-449-204

Lab Sample ID: 410-18162-7

Date Collected: 10/22/20 08:45

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Chlorotoluene	1.0	U M	10	1.0	0.40	ug/L		11/04/20 04:01	2
4-Methyl-2-pentanone	2.0	U M	20	2.0	1.0	ug/L		11/04/20 04:01	2
Acetone	45	D	40	4.0	1.4	ug/L		11/04/20 04:01	2
Acrolein	10	U	200	10	6.0	ug/L		11/04/20 04:01	2
Acrylonitrile	2.0	U	40	2.0	0.60	ug/L		11/04/20 04:01	2
Benzene	540	D	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Bromobenzene	1.0	U	10	1.0	0.40	ug/L		11/04/20 04:01	2
Bromochloromethane	1.0	U	10	1.0	0.40	ug/L		11/04/20 04:01	2
Bromodichloromethane	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Bromoform	4.0	U	8.0	4.0	2.0	ug/L		11/04/20 04:01	2
Bromomethane	1.0	U	2.0	1.0	0.60	ug/L		11/04/20 04:01	2
Carbon disulfide	1.0	U	10	1.0	0.40	ug/L		11/04/20 04:01	2
Carbon tetrachloride	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Chlorobenzene	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Chloroethane	1.0	U Q	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Chloroform	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Chloromethane	1.0	U Q	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
cis-1,2-Dichloroethene	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
cis-1,3-Dichloropropene	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Dibromochloromethane	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Dibromomethane	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Dichlorodifluoromethane	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Ethylbenzene	12	D	2.0	1.6	0.80	ug/L		11/04/20 04:01	2
Hexachlorobutadiene	8.0	U Q	10	8.0	4.0	ug/L		11/04/20 04:01	2
Isopropylbenzene	72	D	10	1.0	0.40	ug/L		11/04/20 04:01	2
m&p-Xylene	25	D	10	4.0	2.0	ug/L		11/04/20 04:01	2
Methyl tertiary butyl ether	0.80	J D	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Methylene Chloride	1.0	U	2.0	1.0	0.60	ug/L		11/04/20 04:01	2
Naphthalene	36	D	10	4.0	2.0	ug/L		11/04/20 04:01	2
n-Butylbenzene	0.49	J D	10	1.0	0.40	ug/L		11/04/20 04:01	2
N-Propylbenzene	3.5	J D	10	1.0	0.40	ug/L		11/04/20 04:01	2
p-Isopropyltoluene	110	D	10	1.0	0.40	ug/L		11/04/20 04:01	2
sec-Butylbenzene	5.4	J D	10	1.0	0.40	ug/L		11/04/20 04:01	2
Styrene	1.0	U M	10	1.0	0.40	ug/L		11/04/20 04:01	2
tert-Butylbenzene	2.0	U M	10	2.0	0.60	ug/L		11/04/20 04:01	2
Tetrachloroethene	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Toluene	5.1	D	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
trans-1,2-Dichloroethene	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
trans-1,3-Dichloropropene	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Trichloroethene	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Trichlorofluoromethane	1.0	U	2.0	1.0	0.40	ug/L		11/04/20 04:01	2
Vinyl acetate	4.0	U	20	4.0	1.4	ug/L		11/04/20 04:01	2
Vinyl chloride	1.0	U Q	2.0	1.0	0.40	ug/L		11/04/20 04:01	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/04/20 04:01	2
4-Bromofluorobenzene (Surr)	105		85 - 114		11/04/20 04:01	2
Dibromofluoromethane (Surr)	99		80 - 119		11/04/20 04:01	2
Toluene-d8 (Surr)	99		89 - 112		11/04/20 04:01	2

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS3-449-204

Lab Sample ID: 410-18162-7

Date Collected: 10/22/20 08:45

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
o-Xylene	700	D	20	16	8.0	ug/L		11/04/20 04:23	20
Xylenes, Total	730		120	40	28	ug/L		11/04/20 04:23	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/04/20 04:23	20
4-Bromofluorobenzene (Surr)	100		85 - 114		11/04/20 04:23	20
Dibromofluoromethane (Surr)	99		80 - 119		11/04/20 04:23	20
Toluene-d8 (Surr)	99		89 - 112		11/04/20 04:23	20

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	1.6	D M	0.58	0.38	0.19	ug/L		11/04/20 01:09	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (2C)	234	M Q	46 - 136	10/31/20 00:51	11/04/20 01:09	20

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.7	J D	2.5	2.0	1.3	mg/L		11/07/20 08:41	5
Chloride	110	D	10	7.5	5.0	mg/L		11/16/20 23:54	25
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/07/20 08:41	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	92		0.20	0.15	0.096	mg/L		10/27/20 22:58	1
Magnesium	15		0.10	0.075	0.040	mg/L		10/27/20 22:58	1
Potassium	3.1		0.50	0.38	0.20	mg/L		10/27/20 22:58	1
Sodium	36		1.0	0.50	0.24	mg/L		10/27/20 22:58	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	2.1		0.21	0.10	0.041	mg/L		10/26/20 09:08	1
Manganese	3.1		0.010	0.0052	0.0031	mg/L		10/26/20 09:08	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0048		0.0020	0.0016	0.00068	mg/L		10/26/20 19:56	1
Lead	0.00017	J	0.00050	0.00025	0.000071	mg/L		10/26/20 19:56	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	310		8.0	6.0	2.6	mg/L		10/27/20 05:04	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 05:04	1
Total Alkalinity as CaCO3 to pH 4.5	310		8.0	6.0	2.6	mg/L		10/27/20 05:04	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:12	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS2-451-204

Lab Sample ID: 410-18162-8

Date Collected: 10/22/20 09:20

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 04:45	5
1,1,2,2-Tetrachloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
1,1,2-Trichloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
1,1-Dichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
1,1-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
1,1-Dichloropropene	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
1,2,3-Trichlorobenzene	5.0	U	25	5.0	2.0	ug/L		11/04/20 04:45	5
1,2,3-Trichloropropane	2.5	U M	25	2.5	1.0	ug/L		11/04/20 04:45	5
1,2,4-Trichlorobenzene	5.0	U	25	5.0	1.5	ug/L		11/04/20 04:45	5
1,2,4-Trimethylbenzene	34	D	25	10	5.0	ug/L		11/04/20 04:45	5
1,2-Dibromo-3-Chloropropane	5.0	U	25	5.0	1.5	ug/L		11/04/20 04:45	5
1,2-Dibromoethane	44	D	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
1,2-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
1,2-Dichloroethane	6.2	D	5.0	2.5	1.5	ug/L		11/04/20 04:45	5
1,2-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
1,3,5-Trimethylbenzene	20	J D	25	5.0	1.5	ug/L		11/04/20 04:45	5
1,3-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
1,3-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
1,4-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
2,2-Dichloropropane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 04:45	5
2-Butanone	150	D	50	5.0	1.5	ug/L		11/04/20 04:45	5
2-Chlorotoluene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 04:45	5
2-Hexanone	710	Q D	50	5.0	1.5	ug/L		11/04/20 04:45	5
4-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
4-Methyl-2-pentanone	430	D	50	5.0	2.5	ug/L		11/04/20 04:45	5
Acetone	400	D	100	10	3.5	ug/L		11/04/20 04:45	5
Acrolein	25	U	500	25	15	ug/L		11/04/20 04:45	5
Acrylonitrile	5.0	U	100	5.0	1.5	ug/L		11/04/20 04:45	5
Benzene	730	D	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Bromobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
Bromochloromethane	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
Bromodichloromethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Bromoform	10	U	20	10	5.0	ug/L		11/04/20 04:45	5
Bromomethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 04:45	5
Carbon disulfide	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
Carbon tetrachloride	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Chlorobenzene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Chloroethane	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Chloroform	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Chloromethane	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
cis-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Dibromochloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Dibromomethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Dichlorodifluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Ethylbenzene	18	D	5.0	4.0	2.0	ug/L		11/04/20 04:45	5
Hexachlorobutadiene	20	U Q	25	20	10	ug/L		11/04/20 04:45	5
Isopropylbenzene	100	D	25	2.5	1.0	ug/L		11/04/20 04:45	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS2-451-204

Lab Sample ID: 410-18162-8

Date Collected: 10/22/20 09:20

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	120	D	25	10	5.0	ug/L		11/04/20 04:45	5
Methyl tertiary butyl ether	1.3	J D M	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Methylene Chloride	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 04:45	5
Naphthalene	66	D	25	10	5.0	ug/L		11/04/20 04:45	5
n-Butylbenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 04:45	5
N-Propylbenzene	3.0	J D	25	2.5	1.0	ug/L		11/04/20 04:45	5
o-Xylene	430	D	5.0	4.0	2.0	ug/L		11/04/20 04:45	5
p-Isopropyltoluene	210	D	25	2.5	1.0	ug/L		11/04/20 04:45	5
sec-Butylbenzene	12	J D	25	2.5	1.0	ug/L		11/04/20 04:45	5
Styrene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 04:45	5
tert-Butylbenzene	5.0	U M	25	5.0	1.5	ug/L		11/04/20 04:45	5
Tetrachloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Toluene	54	D	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Trichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Vinyl acetate	10	U	50	10	3.5	ug/L		11/04/20 04:45	5
Vinyl chloride	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 04:45	5
Xylenes, Total	550		30	10	7.0	ug/L		11/04/20 04:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/04/20 04:45	5
4-Bromofluorobenzene (Surr)	103		85 - 114		11/04/20 04:45	5
Dibromofluoromethane (Surr)	99		80 - 119		11/04/20 04:45	5
Toluene-d8 (Surr)	99		89 - 112		11/04/20 04:45	5

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	37	D	5.8	3.9	1.9	ug/L		11/04/20 01:26	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	1475	J1 Q	46 - 136	10/31/20 00:51	11/04/20 01:26	200

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.7	J D	2.5	2.0	1.3	mg/L		11/07/20 09:17	5
Chloride	89	D	8.0	6.0	4.0	mg/L		11/07/20 09:35	20
Sulfate	1.8	J D	5.0	4.5	1.5	mg/L		11/07/20 09:17	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	110		0.20	0.15	0.096	mg/L		10/27/20 23:01	1
Magnesium	20		0.10	0.075	0.040	mg/L		10/27/20 23:01	1
Potassium	4.0		0.50	0.38	0.20	mg/L		10/27/20 23:01	1
Sodium	38		1.0	0.50	0.24	mg/L		10/27/20 23:01	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	4.4		0.21	0.10	0.041	mg/L		10/26/20 09:11	1
Manganese	5.8		0.010	0.0052	0.0031	mg/L		10/26/20 09:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS2-451-204

Lab Sample ID: 410-18162-8

Date Collected: 10/22/20 09:20

Matrix: Water

Date Received: 10/23/20 10:31

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0033		0.0020	0.0016	0.00068	mg/L		10/26/20 19:58	1
Lead	0.00090		0.00050	0.00025	0.000071	mg/L		10/26/20 19:58	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	280		8.0	6.0	2.6	mg/L		10/27/20 05:11	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 05:11	1
Total Alkalinity as CaCO ₃ to pH 4.5	280		8.0	6.0	2.6	mg/L		10/27/20 05:11	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:15	1

Client Sample ID: TB204-63

Lab Sample ID: 410-18162-9

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:37	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 23:37	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:37	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:37	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:37	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:37	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:37	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 23:37	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		11/03/20 23:37	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 23:37	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 23:37	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 23:37	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 23:37	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 23:37	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: TB204-63

Lab Sample ID: 410-18162-9

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:37	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 23:37	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 23:37	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:37	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:37	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:37	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 23:37	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:37	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:37	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Toluene	0.58	J	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 23:37	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		11/03/20 23:37	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		11/03/20 23:37	1
4-Bromofluorobenzene (Surr)	94		85 - 114		11/03/20 23:37	1
Dibromofluoromethane (Surr)	106		80 - 119		11/03/20 23:37	1
Toluene-d8 (Surr)	97		89 - 112		11/03/20 23:37	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.028	0.019	0.0094	ug/L		11/02/20 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	79		46 - 136	10/31/20 00:51	11/02/20 21:50	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	10/31/20 00:51	11/02/20 21:50	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: ER204-02

Lab Sample ID: 410-18162-10

Date Collected: 10/21/20 08:45

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:03	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 23:03	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:03	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:03	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:03	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:03	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:03	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 23:03	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 23:03	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 23:03	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 23:03	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 23:03	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 23:03	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
Bromodichloromethane	0.50	J M	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 23:03	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:03	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Dibromochloromethane	0.73	J	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 23:03	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 23:03	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: ER204-02

Lab Sample ID: 410-18162-10

Date Collected: 10/21/20 08:45

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:03	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:03	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:03	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 23:03	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:03	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:03	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 23:03	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:03	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/03/20 23:03	1
4-Bromofluorobenzene (Surr)	91		85 - 114		11/03/20 23:03	1
Dibromofluoromethane (Surr)	99		80 - 119		11/03/20 23:03	1
Toluene-d8 (Surr)	98		89 - 112		11/03/20 23:03	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U Q	0.029	0.019	0.0096	ug/L		10/30/20 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136	10/28/20 23:38	10/30/20 00:28	1
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136	10/28/20 23:38	10/30/20 00:28	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.13	J	0.20	0.15	0.096	mg/L		10/27/20 23:04	1
Iron	0.10	U	0.20	0.10	0.040	mg/L		10/27/20 23:04	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/27/20 23:04	1
Manganese	0.0050	U	0.010	0.0050	0.0030	mg/L		10/27/20 23:04	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/27/20 23:04	1
Sodium	0.26	J	1.0	0.50	0.24	mg/L		10/27/20 23:04	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/26/20 19:59	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 19:59	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW028-204

Lab Sample ID: 410-18162-11

Date Collected: 10/22/20 14:05

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
1,1,1-Trichloroethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 01:27	10
1,1,2,2-Tetrachloroethane	5.0	U M	10	5.0	2.0	ug/L		11/04/20 01:27	10
1,1,2-Trichloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
1,1-Dichloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
1,1-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
1,1-Dichloropropene	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
1,2,3-Trichlorobenzene	10	U	50	10	4.0	ug/L		11/04/20 01:27	10
1,2,3-Trichloropropane	5.0	U M	50	5.0	2.0	ug/L		11/04/20 01:27	10
1,2,4-Trichlorobenzene	10	U	50	10	3.0	ug/L		11/04/20 01:27	10
1,2,4-Trimethylbenzene	130	D	50	20	10	ug/L		11/04/20 01:27	10
1,2-Dibromo-3-Chloropropane	10	U	50	10	3.0	ug/L		11/04/20 01:27	10
1,2-Dibromoethane	29	D	10	5.0	2.0	ug/L		11/04/20 01:27	10
1,2-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
1,2-Dichloroethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 01:27	10
1,2-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
1,3,5-Trimethylbenzene	41	J D	50	10	3.0	ug/L		11/04/20 01:27	10
1,3-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
1,3-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
1,4-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
2,2-Dichloropropane	5.0	U	10	5.0	3.0	ug/L		11/04/20 01:27	10
2-Butanone	5.3	J D	100	10	3.0	ug/L		11/04/20 01:27	10
2-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
2-Hexanone	10	U Q M	100	10	3.0	ug/L		11/04/20 01:27	10
4-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
4-Methyl-2-pentanone	25	J D	100	10	5.0	ug/L		11/04/20 01:27	10
Acetone	20	U M	200	20	7.0	ug/L		11/04/20 01:27	10
Acrolein	50	U	1000	50	30	ug/L		11/04/20 01:27	10
Acrylonitrile	10	U	200	10	3.0	ug/L		11/04/20 01:27	10
Bromobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
Bromochloromethane	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
Bromodichloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Bromoform	20	U	40	20	10	ug/L		11/04/20 01:27	10
Bromomethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 01:27	10
Carbon disulfide	5.0	U	50	5.0	2.0	ug/L		11/04/20 01:27	10
Carbon tetrachloride	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Chlorobenzene	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Chloroethane	5.0	U Q	10	5.0	2.0	ug/L		11/04/20 01:27	10
Chloroform	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Chloromethane	5.0	U Q	10	5.0	2.0	ug/L		11/04/20 01:27	10
cis-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
cis-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Dibromochloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Dibromomethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Dichlorodifluoromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Ethylbenzene	840	D	10	8.0	4.0	ug/L		11/04/20 01:27	10
Hexachlorobutadiene	40	U Q	50	40	20	ug/L		11/04/20 01:27	10
Isopropylbenzene	75	D	50	5.0	2.0	ug/L		11/04/20 01:27	10
m&p-Xylene	1600	D	50	20	10	ug/L		11/04/20 01:27	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW028-204

Lab Sample ID: 410-18162-11

Date Collected: 10/22/20 14:05

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Methyl tertiary butyl ether	5.0	U M	10	5.0	2.0	ug/L		11/04/20 01:27	10
Methylene Chloride	5.0	U M	10	5.0	3.0	ug/L		11/04/20 01:27	10
Naphthalene	76	D	50	20	10	ug/L		11/04/20 01:27	10
n-Butylbenzene	2.0	J D	50	5.0	2.0	ug/L		11/04/20 01:27	10
N-Propylbenzene	34	J D	50	5.0	2.0	ug/L		11/04/20 01:27	10
o-Xylene	990	D	10	8.0	4.0	ug/L		11/04/20 01:27	10
p-Isopropyltoluene	36	J D	50	5.0	2.0	ug/L		11/04/20 01:27	10
sec-Butylbenzene	27	J D	50	5.0	2.0	ug/L		11/04/20 01:27	10
Styrene	5.0	U M	50	5.0	2.0	ug/L		11/04/20 01:27	10
tert-Butylbenzene	10	U M	50	10	3.0	ug/L		11/04/20 01:27	10
Tetrachloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
trans-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
trans-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Trichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Trichlorofluoromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 01:27	10
Vinyl acetate	20	U	100	20	7.0	ug/L		11/04/20 01:27	10
Vinyl chloride	5.0	U Q	10	5.0	2.0	ug/L		11/04/20 01:27	10
Xylenes, Total	2600		60	20	14	ug/L		11/04/20 01:27	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		11/04/20 01:27	10
4-Bromofluorobenzene (Surr)	99		85 - 114		11/04/20 01:27	10
Dibromofluoromethane (Surr)	100		80 - 119		11/04/20 01:27	10
Toluene-d8 (Surr)	97		89 - 112		11/04/20 01:27	10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	5100	J1 D	100	50	20	ug/L		11/04/20 03:17	100
Toluene	10000	J1 D	100	50	20	ug/L		11/04/20 03:17	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/04/20 03:17	100
4-Bromofluorobenzene (Surr)	98		85 - 114		11/04/20 03:17	100
Dibromofluoromethane (Surr)	99		80 - 119		11/04/20 03:17	100
Toluene-d8 (Surr)	99		89 - 112		11/04/20 03:17	100

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	29	D M J1	5.7	3.8	1.9	ug/L		11/04/20 01:42	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (2C)	442	Q	46 - 136	10/31/20 00:51	11/04/20 01:42	200

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/07/20 09:53	5
Chloride	46	D	4.0	3.0	2.0	mg/L		11/07/20 10:11	10
Sulfate	4.2	J D	5.0	4.5	1.5	mg/L		11/07/20 09:53	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW028-204

Lab Sample ID: 410-18162-11

Date Collected: 10/22/20 14:05

Matrix: Water

Date Received: 10/23/20 10:31

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	120	J1	0.20	0.15	0.096	mg/L		10/27/20 21:49	1
Magnesium	19	J1	0.10	0.075	0.040	mg/L		10/27/20 21:49	1
Potassium	3.5		0.50	0.38	0.20	mg/L		10/27/20 21:49	1
Sodium	39	J1	1.0	0.50	0.24	mg/L		10/27/20 21:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	3.2	J1	0.21	0.10	0.041	mg/L		10/26/20 08:17	1
Manganese	4.0	J1	0.010	0.0052	0.0031	mg/L		10/26/20 08:17	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U Q	0.0020	0.0016	0.00068	mg/L		11/02/20 22:02	1
Lead	0.00043	J	0.00050	0.00025	0.000071	mg/L		11/02/20 22:02	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	390		8.0	6.0	2.6	mg/L		10/27/20 06:40	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 06:40	1
Total Alkalinity as CaCO ₃ to pH 4.5	390		8.0	6.0	2.6	mg/L		10/27/20 06:40	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:16	1

Client Sample ID: TB204-60

Lab Sample ID: 410-18162-12

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:59	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 23:59	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:59	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:59	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:59	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:59	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:59	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 23:59	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: TB204-60

Lab Sample ID: 410-18162-12

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		11/03/20 23:59	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 23:59	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 23:59	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 23:59	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 23:59	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 23:59	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:59	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 23:59	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		11/03/20 23:59	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:59	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 23:59	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 23:59	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 23:59	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 23:59	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 23:59	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 23:59	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		11/03/20 23:59	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	107		81 - 118				11/03/20 23:59	1	
4-Bromofluorobenzene (Surr)	94		85 - 114				11/03/20 23:59	1	

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: TB204-60

Lab Sample ID: 410-18162-12

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80 - 119		11/03/20 23:59	1
Toluene-d8 (Surr)	96		89 - 112		11/03/20 23:59	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.028	0.019	0.0095	ug/L		11/02/20 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	10/31/20 00:51	11/02/20 22:58	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/31/20 00:51	11/02/20 22:58	1

Client Sample ID: GW008-204

Lab Sample ID: 410-18162-13

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
1,1,1-Trichloroethane	10	U	20	10	6.0	ug/L		11/04/20 03:06	20
1,1,2,2-Tetrachloroethane	10	U M	20	10	4.0	ug/L		11/04/20 03:06	20
1,1,2-Trichloroethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
1,1-Dichloroethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
1,1-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
1,1-Dichloropropene	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
1,2,3-Trichlorobenzene	20	U	100	20	8.0	ug/L		11/04/20 03:06	20
1,2,3-Trichloropropane	10	U M	100	10	4.0	ug/L		11/04/20 03:06	20
1,2,4-Trichlorobenzene	20	U	100	20	6.0	ug/L		11/04/20 03:06	20
1,2,4-Trimethylbenzene	63	J D	100	40	20	ug/L		11/04/20 03:06	20
1,2-Dibromo-3-Chloropropane	20	U	100	20	6.0	ug/L		11/04/20 03:06	20
1,2-Dibromoethane	10	U M	20	10	4.0	ug/L		11/04/20 03:06	20
1,2-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
1,2-Dichloroethane	10	U M	20	10	6.0	ug/L		11/04/20 03:06	20
1,2-Dichloropropane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
1,3,5-Trimethylbenzene	19	J D	100	20	6.0	ug/L		11/04/20 03:06	20
1,3-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
1,3-Dichloropropane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
1,4-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
2,2-Dichloropropane	10	U	20	10	6.0	ug/L		11/04/20 03:06	20
2-Butanone	39	J D	200	20	6.0	ug/L		11/04/20 03:06	20
2-Chlorotoluene	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
2-Hexanone	380	D	200	20	6.0	ug/L		11/04/20 03:06	20
4-Chlorotoluene	10	U M	100	10	4.0	ug/L		11/04/20 03:06	20
4-Methyl-2-pentanone	230	D	200	20	10	ug/L		11/04/20 03:06	20
Acetone	110	J D	400	40	14	ug/L		11/04/20 03:06	20
Acrolein	100	U	2000	100	60	ug/L		11/04/20 03:06	20
Acrylonitrile	20	U	400	20	6.0	ug/L		11/04/20 03:06	20
Bromobenzene	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
Bromochloromethane	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
Bromodichloromethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Bromoform	40	U	80	40	20	ug/L		11/04/20 03:06	20

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW008-204

Lab Sample ID: 410-18162-13

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	10	U	20	10	6.0	ug/L		11/04/20 03:06	20
Carbon disulfide	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
Carbon tetrachloride	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Chlorobenzene	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Chloroethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Chloroform	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Chloromethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
cis-1,2-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
cis-1,3-Dichloropropene	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Dibromochloromethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Dibromomethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Dichlorodifluoromethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Ethylbenzene	310	D	20	16	8.0	ug/L		11/04/20 03:06	20
Hexachlorobutadiene	80	U	100	80	40	ug/L		11/04/20 03:06	20
Isopropylbenzene	80	J D	100	10	4.0	ug/L		11/04/20 03:06	20
m&p-Xylene	640	D	100	40	20	ug/L		11/04/20 03:06	20
Methyl tertiary butyl ether	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Methylene Chloride	10	U	20	10	6.0	ug/L		11/04/20 03:06	20
Naphthalene	29	J D	100	40	20	ug/L		11/04/20 03:06	20
n-Butylbenzene	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
N-Propylbenzene	18	J D	100	10	4.0	ug/L		11/04/20 03:06	20
o-Xylene	230	D	20	16	8.0	ug/L		11/04/20 03:06	20
p-Isopropyltoluene	17	J D	100	10	4.0	ug/L		11/04/20 03:06	20
sec-Butylbenzene	10	U	100	10	4.0	ug/L		11/04/20 03:06	20
Styrene	10	U M	100	10	4.0	ug/L		11/04/20 03:06	20
tert-Butylbenzene	20	U	100	20	6.0	ug/L		11/04/20 03:06	20
Tetrachloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Toluene	5500	D	20	10	4.0	ug/L		11/04/20 03:06	20
trans-1,2-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
trans-1,3-Dichloropropene	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Trichloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Trichlorofluoromethane	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Vinyl acetate	40	U	200	40	14	ug/L		11/04/20 03:06	20
Vinyl chloride	10	U	20	10	4.0	ug/L		11/04/20 03:06	20
Xylenes, Total	870		120	40	28	ug/L		11/04/20 03:06	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 03:06	20
4-Bromofluorobenzene (Surr)	97		85 - 114		11/04/20 03:06	20
Dibromofluoromethane (Surr)	95		80 - 119		11/04/20 03:06	20
Toluene-d8 (Surr)	100		89 - 112		11/04/20 03:06	20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	11000	D	200	100	40	ug/L		11/04/20 03:26	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 03:26	200
4-Bromofluorobenzene (Surr)	93		85 - 114		11/04/20 03:26	200
Dibromofluoromethane (Surr)	97		80 - 119		11/04/20 03:26	200

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW008-204

Lab Sample ID: 410-18162-13

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		89 - 112		11/04/20 03:26	200

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	8.0	D M	2.9	1.9	0.96	ug/L		10/31/20 11:01	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	539	J1 Q	46 - 136	10/28/20 23:38	10/31/20 11:01	100
1,1,2,2-Tetrachloroethane (2C)	1212	J1 Q	46 - 136	10/28/20 23:38	10/31/20 11:01	100

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.1	J D	2.5	2.0	1.3	mg/L		11/07/20 10:29	5
Chloride	91	D	8.0	6.0	4.0	mg/L		11/07/20 10:47	20
Sulfate	1.6	J D	5.0	4.5	1.5	mg/L		11/07/20 10:29	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	150		0.20	0.15	0.096	mg/L		10/27/20 23:08	1
Magnesium	24		0.10	0.075	0.040	mg/L		10/27/20 23:08	1
Potassium	3.6		0.50	0.38	0.20	mg/L		10/27/20 23:08	1
Sodium	39		1.0	0.50	0.24	mg/L		10/27/20 23:08	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	8.3		0.21	0.10	0.041	mg/L		10/26/20 09:14	1
Manganese	7.3		0.010	0.0052	0.0031	mg/L		10/26/20 09:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/26/20 20:01	1
Lead	0.00048	J	0.00050	0.00025	0.000071	mg/L		10/26/20 20:01	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	400		8.0	6.0	2.6	mg/L		10/27/20 06:33	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 06:33	1
Total Alkalinity as CaCO ₃ to pH 4.5	400		8.0	6.0	2.6	mg/L		10/27/20 06:33	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:18	1

Client Sample ID: GW008-604

Lab Sample ID: 410-18162-14

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
1,1,1-Trichloroethane	10	U	20	10	6.0	ug/L		11/04/20 03:46	20
1,1,2,2-Tetrachloroethane	10	U M	20	10	4.0	ug/L		11/04/20 03:46	20
1,1,2-Trichloroethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
1,1-Dichloroethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW008-604

Lab Sample ID: 410-18162-14

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
1,1-Dichloropropene	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
1,2,3-Trichlorobenzene	20	U	100	20	8.0	ug/L		11/04/20 03:46	20
1,2,3-Trichloropropane	10	U M	100	10	4.0	ug/L		11/04/20 03:46	20
1,2,4-Trichlorobenzene	20	U	100	20	6.0	ug/L		11/04/20 03:46	20
1,2,4-Trimethylbenzene	61	J D	100	40	20	ug/L		11/04/20 03:46	20
1,2-Dibromo-3-Chloropropane	20	U	100	20	6.0	ug/L		11/04/20 03:46	20
1,2-Dibromoethane	10	U M	20	10	4.0	ug/L		11/04/20 03:46	20
1,2-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
1,2-Dichloroethane	10	U M	20	10	6.0	ug/L		11/04/20 03:46	20
1,2-Dichloropropane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
1,3,5-Trimethylbenzene	18	J D	100	20	6.0	ug/L		11/04/20 03:46	20
1,3-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
1,3-Dichloropropane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
1,4-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
2,2-Dichloropropane	10	U	20	10	6.0	ug/L		11/04/20 03:46	20
2-Butanone	35	J D	200	20	6.0	ug/L		11/04/20 03:46	20
2-Chlorotoluene	10	U M	100	10	4.0	ug/L		11/04/20 03:46	20
2-Hexanone	390	D	200	20	6.0	ug/L		11/04/20 03:46	20
4-Chlorotoluene	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
4-Methyl-2-pentanone	270	D	200	20	10	ug/L		11/04/20 03:46	20
Acetone	96	J D	400	40	14	ug/L		11/04/20 03:46	20
Acrolein	100	U	2000	100	60	ug/L		11/04/20 03:46	20
Acrylonitrile	20	U	400	20	6.0	ug/L		11/04/20 03:46	20
Bromobenzene	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
Bromochloromethane	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
Bromodichloromethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Bromoform	40	U	80	40	20	ug/L		11/04/20 03:46	20
Bromomethane	10	U	20	10	6.0	ug/L		11/04/20 03:46	20
Carbon disulfide	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
Carbon tetrachloride	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Chlorobenzene	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Chloroethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Chloroform	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Chloromethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
cis-1,2-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
cis-1,3-Dichloropropene	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Dibromochloromethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Dibromomethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Dichlorodifluoromethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Ethylbenzene	310	D	20	16	8.0	ug/L		11/04/20 03:46	20
Hexachlorobutadiene	80	U	100	80	40	ug/L		11/04/20 03:46	20
Isopropylbenzene	83	J D	100	10	4.0	ug/L		11/04/20 03:46	20
m&p-Xylene	660	D	100	40	20	ug/L		11/04/20 03:46	20
Methyl tertiary butyl ether	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Methylene Chloride	10	U	20	10	6.0	ug/L		11/04/20 03:46	20
Naphthalene	30	J D	100	40	20	ug/L		11/04/20 03:46	20
n-Butylbenzene	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
N-Propylbenzene	18	J D	100	10	4.0	ug/L		11/04/20 03:46	20

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW008-604

Lab Sample ID: 410-18162-14

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
o-Xylene	220	D	20	16	8.0	ug/L		11/04/20 03:46	20
p-Isopropyltoluene	18	J D	100	10	4.0	ug/L		11/04/20 03:46	20
sec-Butylbenzene	10	U	100	10	4.0	ug/L		11/04/20 03:46	20
Styrene	10	U M	100	10	4.0	ug/L		11/04/20 03:46	20
tert-Butylbenzene	20	U	100	20	6.0	ug/L		11/04/20 03:46	20
Tetrachloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Toluene	5700	D	20	10	4.0	ug/L		11/04/20 03:46	20
trans-1,2-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
trans-1,3-Dichloropropene	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Trichloroethene	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Trichlorofluoromethane	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Vinyl acetate	40	U	200	40	14	ug/L		11/04/20 03:46	20
Vinyl chloride	10	U	20	10	4.0	ug/L		11/04/20 03:46	20
Xylenes, Total	880		120	40	28	ug/L		11/04/20 03:46	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 03:46	20
4-Bromofluorobenzene (Surr)	97		85 - 114		11/04/20 03:46	20
Dibromofluoromethane (Surr)	94		80 - 119		11/04/20 03:46	20
Toluene-d8 (Surr)	100		89 - 112		11/04/20 03:46	20

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	11000	D	200	100	40	ug/L		11/04/20 04:06	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 04:06	200
4-Bromofluorobenzene (Surr)	93		85 - 114		11/04/20 04:06	200
Dibromofluoromethane (Surr)	95		80 - 119		11/04/20 04:06	200
Toluene-d8 (Surr)	99		89 - 112		11/04/20 04:06	200

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	8.3	D M	2.9	1.9	0.96	ug/L		10/31/20 11:18	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	781	J1 Q	46 - 136	10/28/20 23:38	10/31/20 11:18	100
1,1,2,2-Tetrachloroethane (2C)	262	J1 Q	46 - 136	10/28/20 23:38	10/31/20 11:18	100

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.7	J D	2.5	2.0	1.3	mg/L		11/07/20 11:42	5
Chloride	89	D	10	7.5	5.0	mg/L		11/17/20 01:03	25
Sulfate	1.9	J D	5.0	4.5	1.5	mg/L		11/07/20 11:42	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	140		0.20	0.15	0.096	mg/L		10/27/20 23:11	1
Magnesium	24		0.10	0.075	0.040	mg/L		10/27/20 23:11	1
Potassium	3.5		0.50	0.38	0.20	mg/L		10/27/20 23:11	1
Sodium	38		1.0	0.50	0.24	mg/L		10/27/20 23:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW008-604

Lab Sample ID: 410-18162-14

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	8.2		0.21	0.10	0.041	mg/L		10/26/20 09:18	1
Manganese	7.2		0.010	0.0052	0.0031	mg/L		10/26/20 09:18	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0020	0.0016	0.00068	mg/L		10/26/20 20:03	1
Lead	0.00049	J	0.00050	0.00025	0.000071	mg/L		10/26/20 20:03	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	390		8.0	6.0	2.6	mg/L		10/27/20 06:25	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 06:25	1
Total Alkalinity as CaCO ₃ to pH 4.5	390		8.0	6.0	2.6	mg/L		10/27/20 06:25	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:19	1

Client Sample ID: GWS9-447-204

Lab Sample ID: 410-18162-15

Date Collected: 10/21/20 14:20

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 02:05	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 02:05	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 02:05	1
1,2,4-Trimethylbenzene	45		5.0	2.0	1.0	ug/L		11/04/20 02:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 02:05	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 02:05	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,3,5-Trimethylbenzene	1.3	J	5.0	1.0	0.30	ug/L		11/04/20 02:05	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 02:05	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 02:05	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		11/04/20 02:05	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 02:05	1
Acetone	2.9	J	20	2.0	0.70	ug/L		11/04/20 02:05	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 02:05	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 02:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS9-447-204

Lab Sample ID: 410-18162-15

Date Collected: 10/21/20 14:20

Matrix: Water

Date Received: 10/23/20 10:31

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	36		1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 02:05	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 02:05	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Ethylbenzene	52		1.0	0.80	0.40	ug/L		11/04/20 02:05	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 02:05	1
Isopropylbenzene	11		5.0	0.50	0.20	ug/L		11/04/20 02:05	1
m&p-Xylene	2.1 J		5.0	2.0	1.0	ug/L		11/04/20 02:05	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 02:05	1
Naphthalene	13		5.0	2.0	1.0	ug/L		11/04/20 02:05	1
n-Butylbenzene	0.50	U M	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
N-Propylbenzene	14		5.0	0.50	0.20	ug/L		11/04/20 02:05	1
o-Xylene	63		1.0	0.80	0.40	ug/L		11/04/20 02:05	1
p-Isopropyltoluene	12		5.0	0.50	0.20	ug/L		11/04/20 02:05	1
sec-Butylbenzene	3.6 J		5.0	0.50	0.20	ug/L		11/04/20 02:05	1
Styrene	0.50	U M	5.0	0.50	0.20	ug/L		11/04/20 02:05	1
tert-Butylbenzene	1.0	U M	5.0	1.0	0.30	ug/L		11/04/20 02:05	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Toluene	1.9		1.0	0.50	0.20	ug/L		11/04/20 02:05	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 02:05	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 02:05	1
Xylenes, Total	65		6.0	2.0	1.4	ug/L		11/04/20 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/04/20 02:05	1
4-Bromofluorobenzene (Surr)	92		85 - 114		11/04/20 02:05	1
Dibromofluoromethane (Surr)	97		80 - 119		11/04/20 02:05	1
Toluene-d8 (Surr)	98		89 - 112		11/04/20 02:05	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.018	J M	0.029	0.019	0.0096	ug/L		11/02/20 17:17	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS9-447-204

Lab Sample ID: 410-18162-15

Date Collected: 10/21/20 14:20

Matrix: Water

Date Received: 10/23/20 10:31

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	83	M	46 - 136	10/28/20 23:38	11/02/20 17:17	1
1,1,2,2-Tetrachloroethane (2C)	87		46 - 136	10/28/20 23:38	11/02/20 17:17	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/07/20 16:48	5
Chloride	79	D	20	15	10	mg/L		11/07/20 17:06	50
Sulfate	370	D	50	45	15	mg/L		11/07/20 17:06	50

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	190		0.20	0.15	0.096	mg/L		10/27/20 23:15	1
Magnesium	28		0.10	0.075	0.040	mg/L		10/27/20 23:15	1
Potassium	4.5		0.50	0.38	0.20	mg/L		10/27/20 23:15	1
Sodium	41		1.0	0.50	0.24	mg/L		10/27/20 23:15	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	4.2		0.21	0.10	0.041	mg/L		10/26/20 09:27	1
Manganese	1.8		0.010	0.0052	0.0031	mg/L		10/26/20 09:27	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0023		0.0020	0.0016	0.00068	mg/L		10/26/20 20:05	1
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L		10/26/20 20:05	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	300		8.0	6.0	2.6	mg/L		10/27/20 06:18	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 06:18	1
Total Alkalinity as CaCO ₃ to pH 4.5	300		8.0	6.0	2.6	mg/L		10/27/20 06:18	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 13:20	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(81-118)	(85-114)	(80-119)	(89-112)
410-18162-1	TB204-61	100	92	96	99
410-18162-2	GWS4-446-204	101	90	98	98
410-18162-3	GWS5-446-204	99	94	94	99
410-18162-3 - DL	GWS5-446-204	101	93	96	99
410-18162-4 - DL	GWS5-446-604	98	92	96	99
410-18162-4	GWS5-446-604	100	94	95	98
410-18162-5	TB204-62	103 M	90	97	98
410-18162-6	GWS7-451-204	99	95	95	100
410-18162-6 - DL	GWS7-451-204	100	94	95	99
410-18162-7	GWS3-449-204	98	105	99	99
410-18162-7 - DL	GWS3-449-204	99	100	99	99
410-18162-8	GWS2-451-204	99	103	99	99
410-18162-9	TB204-63	106	94	106	97
410-18162-10	ER204-02	102	91	99	98
410-18162-11	GW028-204	105	99	100	97
410-18162-11 - DL	GW028-204	99	98	99	99
410-18162-11 MS	GW028-204	105	99	102	97
410-18162-11 MS	GW028-204	101	100	98	98
410-18162-11 MSD	GW028-204	104	100	103	97
410-18162-11 MSD	GW028-204	101	99	98	98
410-18162-12	TB204-60	107	94	105	96
410-18162-13	GW008-204	100	97	95	100
410-18162-13 - DL	GW008-204	100	93	97	98
410-18162-14	GW008-604	100	97	94	100
410-18162-14 - DL	GW008-604	100	93	95	99
410-18162-15	GWS9-447-204	102	92	97	98
LCS 410-61753/5	Lab Control Sample	100	94	97	100
LCS 410-61753/7	Lab Control Sample	98	91	97	99
LCS 410-61769/5	Lab Control Sample	103	99	103	98
LCS 410-61769/6	Lab Control Sample	105	95	102	97
LCS 410-61889/6	Lab Control Sample	99	95	95	100
LCS 410-61889/9	Lab Control Sample	100	92	94	99
LCSD 410-61753/6	Lab Control Sample Dup	100	94	97	101
LCSD 410-61753/8	Lab Control Sample Dup	100	91	97	99
LCSD 410-61889/10	Lab Control Sample Dup	101	92	95	100
LCSD 410-61889/8	Lab Control Sample Dup	101	95	95	100
MB 410-61753/10	Method Blank	100	91	97	98
MB 410-61769/8	Method Blank	106	95	104	97
MB 410-61889/12	Method Blank	102	92	97	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
410-18162-1	TB204-61	88	89
410-18162-2	GWS4-446-204	80 M	89
410-18162-3	GWS5-446-204	574 J1 Q	
410-18162-4	GWS5-446-604	203 J1 Q	
410-18162-5	TB204-62	92	93
410-18162-6	GWS7-451-204		0 Q
410-18162-7	GWS3-449-204		234 M Q
410-18162-8	GWS2-451-204	1475 J1 Q	
410-18162-9	TB204-63	79	93
410-18162-10	ER204-02	96	94
410-18162-11	GW028-204		442 Q
410-18162-11 MS	GW028-204		0 Q
410-18162-11 MSD	GW028-204	543 J1 Q	
410-18162-12	TB204-60	97	95
410-18162-13	GW008-204	539 J1 Q	1212 J1 Q
410-18162-14	GW008-604	781 J1 Q	262 J1 Q
410-18162-15	GWS9-447-204	83 M	87
LCS 410-59749/2-A	Lab Control Sample	98	99
LCS 410-60632/2-A	Lab Control Sample	85	84
LCSD 410-59749/3-A	Lab Control Sample Dup	101	102
LCSD 410-60632/3-A	Lab Control Sample Dup	81	83
MB 410-59749/1-A	Method Blank	96	97
MB 410-60632/1-A	Method Blank	82	84

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-61753/10

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 21:09	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:09	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:09	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:09	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 21:09	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 21:09	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 21:09	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 21:09	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 21:09	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 21:09	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 21:09	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 21:09	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 21:09	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61753/10

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:09	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 21:09	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 21:09	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 21:09	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 21:09	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 21:09	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 21:09	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 21:09	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 21:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/03/20 21:09	1
4-Bromofluorobenzene (Surr)	91		85 - 114		11/03/20 21:09	1
Dibromofluoromethane (Surr)	97		80 - 119		11/03/20 21:09	1
Toluene-d8 (Surr)	98		89 - 112		11/03/20 21:09	1

Lab Sample ID: LCS 410-61753/5

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.5		ug/L		103	78 - 124
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	80 - 119
1,1-Dichloroethane	20.0	19.6		ug/L		98	77 - 125
1,1-Dichloroethene	20.0	21.8		ug/L		109	71 - 131
1,1-Dichloropropene	20.0	20.7		ug/L		104	79 - 125
1,2,3-Trichlorobenzene	20.0	20.7		ug/L		104	69 - 129
1,2,3-Trichloropropane	20.0	19.7		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	20.0	20.4		ug/L		102	69 - 130
1,2,4-Trimethylbenzene	20.0	20.1		ug/L		100	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.4		ug/L		87	62 - 128
1,2-Dibromoethane	20.0	20.3		ug/L		101	77 - 121
1,2-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 119
1,2-Dichloroethane	20.0	18.4		ug/L		92	73 - 128

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61753/5

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.5		ug/L		102	78 - 122
1,3,5-Trimethylbenzene	20.0	20.3		ug/L		102	75 - 124
1,3-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 119
1,3-Dichloropropane	20.0	19.6		ug/L		98	80 - 119
1,4-Dichlorobenzene	20.0	21.1		ug/L		105	79 - 118
2,2-Dichloropropane	20.0	19.3		ug/L		96	60 - 139
2-Butanone	150	133		ug/L		89	56 - 143
2-Chlorotoluene	20.0	21.8		ug/L		109	79 - 122
2-Hexanone	100	88.6		ug/L		89	57 - 139
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122
4-Methyl-2-pentanone	100	91.1		ug/L		91	67 - 130
Acetone	150	168		ug/L		112	39 - 160
Acrolein	150	146		ug/L		97	39 - 155
Acrylonitrile	100	93.8		ug/L		94	63 - 135
Benzene	20.0	20.6		ug/L		103	42 - 138
Bromobenzene	20.0	21.6		ug/L		108	80 - 120
Bromochloromethane	20.0	20.0		ug/L		100	78 - 123
Bromodichloromethane	20.0	19.8		ug/L		99	79 - 125
Bromoform	20.0	19.1		ug/L		96	66 - 130
Bromomethane	20.0	19.1		ug/L		96	53 - 141
Carbon disulfide	20.0	20.4		ug/L		102	64 - 133
Carbon tetrachloride	20.0	19.6		ug/L		98	72 - 136
Chlorobenzene	20.0	21.5		ug/L		108	82 - 118
Chloroethane	20.0	17.1		ug/L		85	60 - 138
Chloroform	20.0	20.0		ug/L		100	79 - 124
Chloromethane	20.0	14.4		ug/L		72	50 - 139
cis-1,2-Dichloroethene	20.0	22.1		ug/L		111	78 - 123
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	75 - 124
Dibromochloromethane	20.0	19.8		ug/L		99	74 - 126
Dibromomethane	20.0	19.9		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	15.4		ug/L		77	32 - 152
Ethylbenzene	20.0	21.2		ug/L		106	79 - 121
Hexachlorobutadiene	20.0	21.9		ug/L		110	66 - 134
Isopropylbenzene	20.0	21.0		ug/L		105	72 - 131
m&p-Xylene	40.0	43.3		ug/L		108	80 - 121
Methyl tertiary butyl ether	20.0	18.0		ug/L		90	71 - 124
Methylene Chloride	20.0	20.7		ug/L		104	74 - 124
Naphthalene	20.0	19.7		ug/L		99	61 - 128
n-Butylbenzene	20.0	19.8		ug/L		99	75 - 128
N-Propylbenzene	20.0	21.6		ug/L		108	76 - 126
o-Xylene	20.0	21.1		ug/L		106	78 - 122
p-Isopropyltoluene	20.0	20.9		ug/L		105	77 - 127
sec-Butylbenzene	20.0	20.8		ug/L		104	77 - 126
Styrene	20.0	21.0		ug/L		105	78 - 123
tert-Butylbenzene	20.0	20.3		ug/L		102	78 - 124
Tetrachloroethene	20.0	22.8		ug/L		114	74 - 129
Toluene	20.0	21.4		ug/L		107	80 - 121
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	75 - 124
trans-1,3-Dichloropropene	20.0	17.8		ug/L		89	73 - 127

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61753/5

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	21.0		ug/L		105	79 - 123
Trichlorofluoromethane	20.0	18.9		ug/L		95	65 - 141
Vinyl chloride	20.0	16.7		ug/L		84	58 - 137
Xylenes, Total	60.0	64.4		ug/L		107	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-61753/7

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	92.6		ug/L		93	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	91		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-61753/6

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	20.4		ug/L		102	78 - 124	0	20
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	74 - 131	0	20
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121	0	20
1,1,2-Trichloroethane	20.0	21.1		ug/L		105	80 - 119	1	20
1,1-Dichloroethane	20.0	20.1		ug/L		100	77 - 125	2	20
1,1-Dichloroethene	20.0	22.4		ug/L		112	71 - 131	3	20
1,1-Dichloropropene	20.0	20.9		ug/L		105	79 - 125	1	20
1,2,3-Trichlorobenzene	20.0	20.7		ug/L		104	69 - 129	0	20
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122	1	20
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		104	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	20.4		ug/L		102	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	62 - 128	3	20
1,2-Dibromoethane	20.0	20.1		ug/L		100	77 - 121	1	20
1,2-Dichlorobenzene	20.0	21.4		ug/L		107	80 - 119	1	20
1,2-Dichloroethane	20.0	18.8		ug/L		94	73 - 128	2	20
1,2-Dichloropropane	20.0	20.9		ug/L		105	78 - 122	2	20
1,3,5-Trimethylbenzene	20.0	20.8		ug/L		104	75 - 124	3	20
1,3-Dichlorobenzene	20.0	21.1		ug/L		106	80 - 119	1	20
1,3-Dichloropropane	20.0	19.5		ug/L		98	80 - 119	0	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61753/6

Matrix: Water

Analysis Batch: 61753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	21.6		ug/L		108	79 - 118	2	20
2,2-Dichloropropane	20.0	20.0	M	ug/L		100	60 - 139	4	20
2-Butanone	150	133		ug/L		89	56 - 143	0	20
2-Chlorotoluene	20.0	21.6		ug/L		108	79 - 122	1	20
2-Hexanone	100	89.2		ug/L		89	57 - 139	1	20
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122	0	20
4-Methyl-2-pentanone	100	91.9		ug/L		92	67 - 130	1	20
Acetone	150	156		ug/L		104	39 - 160	7	20
Acrolein	150	141		ug/L		94	39 - 155	3	20
Acrylonitrile	100	95.6		ug/L		96	63 - 135	2	20
Benzene	20.0	20.9		ug/L		104	42 - 138	1	20
Bromobenzene	20.0	21.9		ug/L		109	80 - 120	1	20
Bromochloromethane	20.0	20.4		ug/L		102	78 - 123	2	20
Bromodichloromethane	20.0	19.7		ug/L		98	79 - 125	1	20
Bromoform	20.0	19.0		ug/L		95	66 - 130	0	20
Bromomethane	20.0	18.4		ug/L		92	53 - 141	4	20
Carbon disulfide	20.0	20.6		ug/L		103	64 - 133	1	20
Carbon tetrachloride	20.0	19.7		ug/L		98	72 - 136	1	20
Chlorobenzene	20.0	21.7		ug/L		108	82 - 118	1	20
Chloroethane	20.0	16.4		ug/L		82	60 - 138	4	20
Chloroform	20.0	20.3		ug/L		102	79 - 124	2	20
Chloromethane	20.0	14.9		ug/L		74	50 - 139	3	20
cis-1,2-Dichloroethene	20.0	22.3		ug/L		112	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	75 - 124	2	20
Dibromochloromethane	20.0	20.1		ug/L		100	74 - 126	1	20
Dibromomethane	20.0	20.0		ug/L		100	79 - 123	0	20
Dichlorodifluoromethane	20.0	14.9		ug/L		75	32 - 152	3	20
Ethylbenzene	20.0	21.2		ug/L		106	79 - 121	0	20
Hexachlorobutadiene	20.0	22.3		ug/L		111	66 - 134	2	20
Isopropylbenzene	20.0	21.2		ug/L		106	72 - 131	1	20
m&p-Xylene	40.0	43.5		ug/L		109	80 - 121	1	20
Methyl tertiary butyl ether	20.0	18.2		ug/L		91	71 - 124	1	20
Methylene Chloride	20.0	21.0		ug/L		105	74 - 124	1	20
Naphthalene	20.0	19.9		ug/L		99	61 - 128	1	20
n-Butylbenzene	20.0	20.5		ug/L		102	75 - 128	4	20
N-Propylbenzene	20.0	22.0		ug/L		110	76 - 126	2	20
o-Xylene	20.0	21.0		ug/L		105	78 - 122	0	20
p-Isopropyltoluene	20.0	21.3		ug/L		106	77 - 127	2	20
sec-Butylbenzene	20.0	21.2		ug/L		106	77 - 126	2	20
Styrene	20.0	21.1		ug/L		106	78 - 123	0	20
tert-Butylbenzene	20.0	20.7		ug/L		103	78 - 124	2	20
Tetrachloroethene	20.0	23.0		ug/L		115	74 - 129	1	20
Toluene	20.0	21.6		ug/L		108	80 - 121	1	20
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	75 - 124	1	20
trans-1,3-Dichloropropene	20.0	18.1		ug/L		90	73 - 127	1	20
Trichloroethene	20.0	21.7		ug/L		109	79 - 123	3	20
Trichlorofluoromethane	20.0	19.0		ug/L		95	65 - 141	0	20
Vinyl chloride	20.0	16.6		ug/L		83	58 - 137	1	20
Xylenes, Total	60.0	64.5		ug/L		108	79 - 121	0	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	101		89 - 112

Lab Sample ID: LCSD 410-61753/8
Matrix: Water
Analysis Batch: 61753

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	92.2		ug/L		92	54 - 146	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	91		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: MB 410-61769/8
Matrix: Water
Analysis Batch: 61769

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 22:23	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 22:23	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 22:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 22:23	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 22:23	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 22:23	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 22:23	1
4-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 22:23	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 22:23	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 22:23	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61769/8

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 22:23	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 22:23	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 22:23	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 22:23	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 22:23	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 22:23	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 22:23	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
sec-Butylbenzene	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 22:23	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 22:23	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 22:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		11/03/20 22:23	1
4-Bromofluorobenzene (Surr)	95		85 - 114		11/03/20 22:23	1
Dibromofluoromethane (Surr)	104		80 - 119		11/03/20 22:23	1
Toluene-d8 (Surr)	97		89 - 112		11/03/20 22:23	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61769/5

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	78 - 124
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	74 - 131
1,1,2,2-Tetrachloroethane	20.0	17.0		ug/L		85	71 - 121
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	80 - 119
1,1-Dichloroethane	20.0	18.0		ug/L		90	77 - 125
1,1-Dichloroethene	20.0	18.2		ug/L		91	71 - 131
1,1-Dichloropropene	20.0	17.9		ug/L		89	79 - 125
1,2,3-Trichlorobenzene	20.0	18.2		ug/L		91	69 - 129
1,2,3-Trichloropropane	20.0	18.5		ug/L		92	73 - 122
1,2,4-Trichlorobenzene	20.0	18.1		ug/L		90	69 - 130
1,2,4-Trimethylbenzene	20.0	17.9		ug/L		89	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	62 - 128
1,2-Dibromoethane	20.0	18.7		ug/L		93	77 - 121
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 119
1,2-Dichloroethane	20.0	19.0		ug/L		95	73 - 128
1,2-Dichloropropane	20.0	17.6		ug/L		88	78 - 122
1,3,5-Trimethylbenzene	20.0	18.1		ug/L		90	75 - 124
1,3-Dichlorobenzene	20.0	18.5		ug/L		93	80 - 119
1,3-Dichloropropane	20.0	17.5		ug/L		88	80 - 119
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	79 - 118
2,2-Dichloropropane	20.0	18.8		ug/L		94	60 - 139
2-Butanone	150	133		ug/L		88	56 - 143
2-Chlorotoluene	20.0	18.0		ug/L		90	79 - 122
2-Hexanone	100	85.2		ug/L		85	57 - 139
4-Chlorotoluene	20.0	18.1		ug/L		91	78 - 122
4-Methyl-2-pentanone	100	88.0		ug/L		88	67 - 130
Acetone	150	123		ug/L		82	39 - 160
Acrolein	150	117		ug/L		78	39 - 155
Acrylonitrile	100	86.9		ug/L		87	63 - 135
Benzene	20.0	17.9		ug/L		90	42 - 138
Bromobenzene	20.0	18.6		ug/L		93	80 - 120
Bromochloromethane	20.0	18.0		ug/L		90	78 - 123
Bromodichloromethane	20.0	18.7		ug/L		93	79 - 125
Bromoform	20.0	19.1		ug/L		95	66 - 130
Bromomethane	20.0	13.8		ug/L		69	53 - 141
Carbon disulfide	20.0	17.9		ug/L		89	64 - 133
Carbon tetrachloride	20.0	18.9		ug/L		94	72 - 136
Chlorobenzene	20.0	18.8		ug/L		94	82 - 118
Chloroethane	20.0	13.7		ug/L		68	60 - 138
Chloroform	20.0	18.8		ug/L		94	79 - 124
Chloromethane	20.0	12.3		ug/L		61	50 - 139
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	78 - 123
cis-1,3-Dichloropropene	20.0	17.6		ug/L		88	75 - 124
Dibromochloromethane	20.0	20.4		ug/L		102	74 - 126
Dibromomethane	20.0	19.3		ug/L		96	79 - 123
Dichlorodifluoromethane	20.0	12.0	M	ug/L		60	32 - 152
Ethylbenzene	20.0	18.2		ug/L		91	79 - 121
Hexachlorobutadiene	20.0	18.1		ug/L		91	66 - 134

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61769/5

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	20.0	18.8		ug/L		94	72 - 131
m&p-Xylene	40.0	37.5		ug/L		94	80 - 121
Methyl tertiary butyl ether	20.0	17.5		ug/L		87	71 - 124
Methylene Chloride	20.0	17.8		ug/L		89	74 - 124
Naphthalene	20.0	18.3		ug/L		91	61 - 128
n-Butylbenzene	20.0	17.1		ug/L		86	75 - 128
N-Propylbenzene	20.0	18.0		ug/L		90	76 - 126
o-Xylene	20.0	18.8		ug/L		94	78 - 122
p-Isopropyltoluene	20.0	18.3		ug/L		91	77 - 127
sec-Butylbenzene	20.0	18.1		ug/L		90	77 - 126
Styrene	20.0	18.8		ug/L		94	78 - 123
tert-Butylbenzene	20.0	20.4		ug/L		102	78 - 124
Tetrachloroethene	20.0	18.8		ug/L		94	74 - 129
Toluene	20.0	18.2		ug/L		91	80 - 121
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	75 - 124
trans-1,3-Dichloropropene	20.0	17.1		ug/L		86	73 - 127
Trichloroethene	20.0	18.4		ug/L		92	79 - 123
Trichlorofluoromethane	20.0	15.6		ug/L		78	65 - 141
Vinyl chloride	20.0	13.0		ug/L		65	58 - 137
Xylenes, Total	60.0	56.3		ug/L		94	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	103		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: LCS 410-61769/6

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	100		ug/L		100	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: 410-18162-11 MS

Matrix: Water

Analysis Batch: 61769

Client Sample ID: GW028-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.0	U	200	200	D	ug/L		100	78 - 124
1,1,1-Trichloroethane	5.0	U	200	220	D	ug/L		110	74 - 131
1,1,2,2-Tetrachloroethane	5.0	U M	200	191	D	ug/L		95	71 - 121

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-18162-11 MS

Matrix: Water

Analysis Batch: 61769

Client Sample ID: GW028-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	5.0	U	200	198	D	ug/L		99	80 - 119
1,1-Dichloroethane	5.0	U	200	202	D	ug/L		101	77 - 125
1,1-Dichloroethene	5.0	U	200	230	D	ug/L		115	71 - 131
1,1-Dichloropropene	5.0	U	200	216	D	ug/L		108	79 - 125
1,2,3-Trichlorobenzene	10	U	200	195	D	ug/L		98	69 - 129
1,2,3-Trichloropropane	5.0	U M	200	193	D	ug/L		96	73 - 122
1,2,4-Trichlorobenzene	10	U	200	200	D	ug/L		100	69 - 130
1,2,4-Trimethylbenzene	130	D	200	333	D	ug/L		101	76 - 124
1,2-Dibromo-3-Chloropropane	10	U	200	194	D	ug/L		97	62 - 128
1,2-Dibromoethane	29	D	200	222	D	ug/L		97	77 - 121
1,2-Dichlorobenzene	5.0	U	200	198	D	ug/L		99	80 - 119
1,2-Dichloroethane	5.0	U	200	209	D	ug/L		104	73 - 128
1,2-Dichloropropane	5.0	U	200	201	D	ug/L		100	78 - 122
1,3,5-Trimethylbenzene	41	J D	200	250	D	ug/L		105	75 - 124
1,3-Dichlorobenzene	5.0	U	200	201	D	ug/L		100	80 - 119
1,3-Dichloropropane	5.0	U	200	187	D	ug/L		93	80 - 119
1,4-Dichlorobenzene	5.0	U	200	201	D	ug/L		100	79 - 118
2,2-Dichloropropane	5.0	U	200	223	D	ug/L		112	60 - 139
2-Butanone	5.3	J D	1500	1370	D	ug/L		91	56 - 143
2-Chlorotoluene	5.0	U	200	201	D	ug/L		101	79 - 122
2-Hexanone	10	U Q M	1000	966	D	ug/L		97	57 - 139
4-Chlorotoluene	5.0	U	200	201	D	ug/L		101	78 - 122
4-Methyl-2-pentanone	25	J D	1000	952	D	ug/L		93	67 - 130
Acetone	20	U M	1500	1210	D	ug/L		81	39 - 160
Acrolein	50	U	1500	1080	D	ug/L		72	39 - 155
Acrylonitrile	10	U	1000	872	D	ug/L		87	63 - 135
Benzene	5000	E J1 D	200	5150	E 4 D	ug/L		97	42 - 138
Bromobenzene	5.0	U	200	199	D	ug/L		99	80 - 120
Bromochloromethane	5.0	U	200	190	D	ug/L		95	78 - 123
Bromodichloromethane	5.0	U	200	203	D	ug/L		101	79 - 125
Bromoform	20	U	200	192	D	ug/L		96	66 - 130
Bromomethane	5.0	U	200	161	D	ug/L		80	53 - 141
Carbon disulfide	5.0	U	200	217	D	ug/L		109	64 - 133
Carbon tetrachloride	5.0	U	200	226	D	ug/L		113	72 - 136
Chlorobenzene	5.0	U	200	205	D	ug/L		103	82 - 118
Chloroethane	5.0	U Q	200	156	D	ug/L		78	60 - 138
Chloroform	5.0	U	200	206	D	ug/L		103	79 - 124
Chloromethane	5.0	U Q	200	146	D	ug/L		73	50 - 139
cis-1,2-Dichloroethene	5.0	U	200	217	D	ug/L		108	78 - 123
cis-1,3-Dichloropropene	5.0	U	200	192	D	ug/L		96	75 - 124
Dibromochloromethane	5.0	U	200	206	D	ug/L		103	74 - 126
Dibromomethane	5.0	U	200	201	D	ug/L		101	79 - 123
Dichlorodifluoromethane	5.0	U	200	148	D	ug/L		74	32 - 152
Ethylbenzene	840	D	200	1030	4 D	ug/L		92	79 - 121
Hexachlorobutadiene	40	U Q	200	204	D Q	ug/L		102	66 - 134
Isopropylbenzene	75	D	200	292	D	ug/L		108	72 - 131
m&p-Xylene	1600	D	400	2000	4 D	ug/L		96	80 - 121
Methyl tertiary butyl ether	5.0	U M	200	184	D	ug/L		92	71 - 124
Methylene Chloride	5.0	U M	200	199	D	ug/L		100	74 - 124

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-18162-11 MS

Matrix: Water

Analysis Batch: 61769

Client Sample ID: GW028-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	76	D	200	271	D	ug/L		98	61 - 128
n-Butylbenzene	2.0	J D	200	203	D	ug/L		100	75 - 128
N-Propylbenzene	34	J D	200	242	D	ug/L		104	76 - 126
o-Xylene	990	D	200	1180	4 D	ug/L		94	78 - 122
p-Isopropyltoluene	36	J D	200	223	D	ug/L		94	77 - 127
sec-Butylbenzene	27	J D	200	216	D	ug/L		95	77 - 126
Styrene	5.0	U M	200	240	D	ug/L		120	78 - 123
tert-Butylbenzene	10	U M	200	214	D	ug/L		107	78 - 124
Tetrachloroethene	5.0	U	200	218	D	ug/L		109	74 - 129
Toluene	8900	E J1 D	200	8980	E 4 D	ug/L		26	80 - 121
trans-1,2-Dichloroethene	5.0	U	200	215	D	ug/L		108	75 - 124
trans-1,3-Dichloropropene	5.0	U	200	182	D	ug/L		91	73 - 127
Trichloroethene	5.0	U	200	215	D	ug/L		107	79 - 123
Trichlorofluoromethane	5.0	U	200	199	D	ug/L		100	65 - 141
Vinyl chloride	5.0	U Q	200	165	D	ug/L		82	58 - 137
Xylenes, Total	2600		600	3180	4	ug/L		98	79 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: 410-18162-11 MS

Matrix: Water

Analysis Batch: 61769

Client Sample ID: GW028-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	200	U	1000	1080	D	ug/L		108	54 - 146

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: 410-18162-11 MSD

Matrix: Water

Analysis Batch: 61769

Client Sample ID: GW028-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	5.0	U	200	199	D	ug/L		100	78 - 124	0	20
1,1,1-Trichloroethane	5.0	U	200	220	D	ug/L		110	74 - 131	0	20
1,1,2,2-Tetrachloroethane	5.0	U M	200	193	D	ug/L		96	71 - 121	1	20
1,1,2-Trichloroethane	5.0	U	200	202	D	ug/L		101	80 - 119	2	20
1,1-Dichloroethane	5.0	U	200	211	D	ug/L		105	77 - 125	4	20
1,1-Dichloroethene	5.0	U	200	225	D	ug/L		113	71 - 131	2	20
1,1-Dichloropropene	5.0	U	200	219	D	ug/L		109	79 - 125	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-18162-11 MSD

Matrix: Water

Analysis Batch: 61769

Client Sample ID: GW028-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	10	U	200	197	D	ug/L		98	69 - 129	1	20
1,2,3-Trichloropropane	5.0	U M	200	202	D	ug/L		101	73 - 122	5	20
1,2,4-Trichlorobenzene	10	U	200	203	D	ug/L		101	69 - 130	2	20
1,2,4-Trimethylbenzene	130	D	200	342	D	ug/L		105	76 - 124	3	20
1,2-Dibromo-3-Chloropropane	10	U	200	197	D	ug/L		99	62 - 128	2	20
1,2-Dibromoethane	29	D	200	230	D	ug/L		101	77 - 121	3	20
1,2-Dichlorobenzene	5.0	U	200	202	D	ug/L		101	80 - 119	2	20
1,2-Dichloroethane	5.0	U	200	203	D	ug/L		102	73 - 128	3	20
1,2-Dichloropropane	5.0	U	200	201	D	ug/L		100	78 - 122	0	20
1,3,5-Trimethylbenzene	41	J D	200	255	D	ug/L		107	75 - 124	2	20
1,3-Dichlorobenzene	5.0	U	200	205	D	ug/L		102	80 - 119	2	20
1,3-Dichloropropane	5.0	U	200	188	D	ug/L		94	80 - 119	1	20
1,4-Dichlorobenzene	5.0	U	200	205	D	ug/L		102	79 - 118	2	20
2,2-Dichloropropane	5.0	U	200	227	D	ug/L		114	60 - 139	2	20
2-Butanone	5.3	J D	1500	1400	D	ug/L		93	56 - 143	2	20
2-Chlorotoluene	5.0	U	200	205	D	ug/L		103	79 - 122	2	20
2-Hexanone	10	U Q M	1000	998	D	ug/L		100	57 - 139	3	20
4-Chlorotoluene	5.0	U	200	207	D	ug/L		104	78 - 122	3	20
4-Methyl-2-pentanone	25	J D	1000	980	D	ug/L		96	67 - 130	3	20
Acetone	20	U M	1500	1180	D	ug/L		79	39 - 160	3	20
Acrolein	50	U	1500	1070	D	ug/L		71	39 - 155	1	20
Acrylonitrile	10	U	1000	886	D	ug/L		89	63 - 135	2	20
Benzene	5000	E J1 D	200	5290	E 4 D	ug/L		167	42 - 138	3	20
Bromobenzene	5.0	U	200	203	D	ug/L		102	80 - 120	2	20
Bromochloromethane	5.0	U	200	193	D	ug/L		96	78 - 123	2	20
Bromodichloromethane	5.0	U	200	203	D	ug/L		101	79 - 125	0	20
Bromoform	20	U	200	193	D	ug/L		97	66 - 130	1	20
Bromomethane	5.0	U	200	165	D	ug/L		82	53 - 141	2	20
Carbon disulfide	5.0	U	200	223	D	ug/L		112	64 - 133	3	20
Carbon tetrachloride	5.0	U	200	228	D	ug/L		114	72 - 136	1	20
Chlorobenzene	5.0	U	200	207	D	ug/L		104	82 - 118	1	20
Chloroethane	5.0	U Q	200	170	D	ug/L		85	60 - 138	9	20
Chloroform	5.0	U	200	209	D	ug/L		105	79 - 124	2	20
Chloromethane	5.0	U Q	200	161	D	ug/L		81	50 - 139	10	20
cis-1,2-Dichloroethene	5.0	U	200	218	D	ug/L		109	78 - 123	0	20
cis-1,3-Dichloropropene	5.0	U	200	199	D	ug/L		99	75 - 124	3	20
Dibromochloromethane	5.0	U	200	207	D	ug/L		103	74 - 126	1	20
Dibromomethane	5.0	U	200	199	D	ug/L		100	79 - 123	1	20
Dichlorodifluoromethane	5.0	U	200	149	D	ug/L		74	32 - 152	0	20
Ethylbenzene	840	D	200	1060	4 D	ug/L		106	79 - 121	3	20
Hexachlorobutadiene	40	U Q	200	212	D Q	ug/L		106	66 - 134	4	20
Isopropylbenzene	75	D	200	297	D	ug/L		111	72 - 131	2	20
m&p-Xylene	1600	D	400	2030	4 D	ug/L		103	80 - 121	2	20
Methyl tertiary butyl ether	5.0	U M	200	185	D	ug/L		93	71 - 124	1	20
Methylene Chloride	5.0	U M	200	205	D	ug/L		103	74 - 124	3	20
Naphthalene	76	D	200	280	D	ug/L		102	61 - 128	3	20
n-Butylbenzene	2.0	J D	200	209	D	ug/L		103	75 - 128	3	20
N-Propylbenzene	34	J D	200	247	D	ug/L		106	76 - 126	2	20
o-Xylene	990	D	200	1200	4 D	ug/L		107	78 - 122	2	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-18162-11 MSD

Matrix: Water

Analysis Batch: 61769

Client Sample ID: GW028-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
p-Isopropyltoluene	36	J D	200	228	D	ug/L		96	77 - 127	2	20
sec-Butylbenzene	27	J D	200	221	D	ug/L		97	77 - 126	2	20
Styrene	5.0	U M	200	244	D	ug/L		122	78 - 123	1	20
tert-Butylbenzene	10	U M	200	221	D	ug/L		111	78 - 124	3	20
Tetrachloroethene	5.0	U	200	220	D	ug/L		110	74 - 129	1	20
Toluene	8900	E J1 D	200	9210	E 4 D	ug/L		145	80 - 121	3	20
trans-1,2-Dichloroethene	5.0	U	200	218	D	ug/L		109	75 - 124	1	20
trans-1,3-Dichloropropene	5.0	U	200	187	D	ug/L		93	73 - 127	3	20
Trichloroethene	5.0	U	200	214	D	ug/L		107	79 - 123	0	20
Trichlorofluoromethane	5.0	U	200	198	D	ug/L		99	65 - 141	1	20
Vinyl chloride	5.0	U Q	200	176	D	ug/L		88	58 - 137	7	20
Xylenes, Total	2600		600	3230	4	ug/L		107	79 - 121	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		81 - 118
4-Bromofluorobenzene (Surr)	100		85 - 114
Dibromofluoromethane (Surr)	103		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: 410-18162-11 MSD

Matrix: Water

Analysis Batch: 61769

Client Sample ID: GW028-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	200	U	1000	1080	D	ug/L		108	54 - 146	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 11:35	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 11:35	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 11:35	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 11:35	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/04/20 11:35	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 11:35	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 11:35	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 11:35	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 11:35	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 11:35	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 11:35	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 11:35	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/04/20 11:35	1
4-Bromofluorobenzene (Surr)	92		85 - 114		11/04/20 11:35	1
Dibromofluoromethane (Surr)	97		80 - 119		11/04/20 11:35	1
Toluene-d8 (Surr)	99		89 - 112		11/04/20 11:35	1

Lab Sample ID: LCS 410-61889/6

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	21.1		ug/L		106	80 - 119
1,1-Dichloroethane	20.0	19.0		ug/L		95	77 - 125
1,1-Dichloroethene	20.0	20.3		ug/L		101	71 - 131
1,1-Dichloropropene	20.0	19.5		ug/L		97	79 - 125
1,2,3-Trichlorobenzene	20.0	20.3		ug/L		102	69 - 129
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		100	69 - 130
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	62 - 128
1,2-Dibromoethane	20.0	19.9		ug/L		100	77 - 121
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	17.9		ug/L		90	73 - 128
1,2-Dichloropropane	20.0	20.1		ug/L		100	78 - 122
1,3,5-Trimethylbenzene	20.0	19.8		ug/L		99	75 - 124
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,3-Dichloropropane	20.0	19.0		ug/L		95	80 - 119
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	18.5	M	ug/L		93	60 - 139
2-Butanone	150	147		ug/L		98	56 - 143
2-Chlorotoluene	20.0	21.0		ug/L		105	79 - 122
2-Hexanone	100	92.8		ug/L		93	57 - 139
4-Chlorotoluene	20.0	20.8		ug/L		104	78 - 122
4-Methyl-2-pentanone	100	92.8		ug/L		93	67 - 130
Acetone	150	189		ug/L		126	39 - 160

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61889/6

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	150	139		ug/L		93	39 - 155
Acrylonitrile	100	99.0		ug/L		99	63 - 135
Benzene	20.0	19.9		ug/L		99	42 - 138
Bromobenzene	20.0	21.1		ug/L		106	80 - 120
Bromochloromethane	20.0	19.0		ug/L		95	78 - 123
Bromodichloromethane	20.0	18.6		ug/L		93	79 - 125
Bromoform	20.0	18.1		ug/L		91	66 - 130
Bromomethane	20.0	18.9		ug/L		95	53 - 141
Carbon disulfide	20.0	19.1		ug/L		95	64 - 133
Carbon tetrachloride	20.0	18.1		ug/L		91	72 - 136
Chlorobenzene	20.0	20.7		ug/L		103	82 - 118
Chloroethane	20.0	17.1		ug/L		86	60 - 138
Chloroform	20.0	19.2		ug/L		96	79 - 124
Chloromethane	20.0	15.9		ug/L		79	50 - 139
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	78 - 123
cis-1,3-Dichloropropene	20.0	18.8		ug/L		94	75 - 124
Dibromochloromethane	20.0	19.3		ug/L		97	74 - 126
Dibromomethane	20.0	19.5		ug/L		98	79 - 123
Dichlorodifluoromethane	20.0	15.0		ug/L		75	32 - 152
Ethylbenzene	20.0	20.0		ug/L		100	79 - 121
Hexachlorobutadiene	20.0	20.4		ug/L		102	66 - 134
Isopropylbenzene	20.0	20.1		ug/L		101	72 - 131
m&p-Xylene	40.0	41.4		ug/L		103	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	20.1		ug/L		100	74 - 124
Naphthalene	20.0	19.9		ug/L		99	61 - 128
n-Butylbenzene	20.0	19.3		ug/L		96	75 - 128
N-Propylbenzene	20.0	20.9		ug/L		104	76 - 126
o-Xylene	20.0	20.3		ug/L		102	78 - 122
p-Isopropyltoluene	20.0	19.9		ug/L		100	77 - 127
sec-Butylbenzene	20.0	20.2		ug/L		101	77 - 126
Styrene	20.0	20.5		ug/L		103	78 - 123
tert-Butylbenzene	20.0	19.3		ug/L		96	78 - 124
Tetrachloroethene	20.0	22.0		ug/L		110	74 - 129
Toluene	20.0	20.3		ug/L		102	80 - 121
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	18.0		ug/L		90	73 - 127
Trichloroethene	20.0	19.9		ug/L		99	79 - 123
Trichlorofluoromethane	20.0	18.5		ug/L		92	65 - 141
Vinyl chloride	20.0	16.8		ug/L		84	58 - 137
Xylenes, Total	60.0	61.7		ug/L		103	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	100		89 - 112

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61889/9

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	92.1		ug/L		92	54 - 146
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	100		81 - 118				
4-Bromofluorobenzene (Surr)	92		85 - 114				
Dibromofluoromethane (Surr)	94		80 - 119				
Toluene-d8 (Surr)	99		89 - 112				

Lab Sample ID: LCSD 410-61889/10

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	91.3		ug/L		91	54 - 146	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	101		81 - 118						
4-Bromofluorobenzene (Surr)	92		85 - 114						
Dibromofluoromethane (Surr)	95		80 - 119						
Toluene-d8 (Surr)	100		89 - 112						

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	78 - 124	2	20
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	71 - 121	1	20
1,1,2-Trichloroethane	20.0	21.3		ug/L		106	80 - 119	1	20
1,1-Dichloroethane	20.0	18.9		ug/L		95	77 - 125	0	20
1,1-Dichloroethene	20.0	20.7		ug/L		103	71 - 131	2	20
1,1-Dichloropropene	20.0	19.5		ug/L		97	79 - 125	0	20
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	69 - 129	0	20
1,2,3-Trichloropropane	20.0	19.8		ug/L		99	73 - 122	0	20
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/L		91	62 - 128	1	20
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121	0	20
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 119	0	20
1,2-Dichloroethane	20.0	17.9		ug/L		90	73 - 128	0	20
1,2-Dichloropropane	20.0	19.8		ug/L		99	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		99	75 - 124	0	20
1,3-Dichlorobenzene	20.0	20.5		ug/L		102	80 - 119	0	20
1,3-Dichloropropane	20.0	19.3		ug/L		96	80 - 119	1	20
1,4-Dichlorobenzene	20.0	20.7		ug/L		103	79 - 118	0	20
2,2-Dichloropropane	20.0	18.1		ug/L		91	60 - 139	2	20
2-Butanone	150	147		ug/L		98	56 - 143	0	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	20.0	20.7		ug/L		104	79 - 122	1	20
2-Hexanone	100	92.3		ug/L		92	57 - 139	0	20
4-Chlorotoluene	20.0	20.8		ug/L		104	78 - 122	0	20
4-Methyl-2-pentanone	100	93.3		ug/L		93	67 - 130	1	20
Acetone	150	187		ug/L		125	39 - 160	1	20
Acrolein	150	139		ug/L		93	39 - 155	0	20
Acrylonitrile	100	98.8		ug/L		99	63 - 135	0	20
Benzene	20.0	19.9		ug/L		99	42 - 138	0	20
Bromobenzene	20.0	21.3		ug/L		106	80 - 120	1	20
Bromochloromethane	20.0	19.1		ug/L		96	78 - 123	1	20
Bromodichloromethane	20.0	18.9		ug/L		95	79 - 125	1	20
Bromoform	20.0	18.6		ug/L		93	66 - 130	3	20
Bromomethane	20.0	19.4		ug/L		97	53 - 141	3	20
Carbon disulfide	20.0	19.1		ug/L		95	64 - 133	0	20
Carbon tetrachloride	20.0	18.5		ug/L		93	72 - 136	2	20
Chlorobenzene	20.0	20.8		ug/L		104	82 - 118	1	20
Chloroethane	20.0	17.5		ug/L		88	60 - 138	2	20
Chloroform	20.0	19.2		ug/L		96	79 - 124	0	20
Chloromethane	20.0	16.2		ug/L		81	50 - 139	2	20
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	75 - 124	1	20
Dibromochloromethane	20.0	19.6		ug/L		98	74 - 126	1	20
Dibromomethane	20.0	19.7		ug/L		98	79 - 123	1	20
Dichlorodifluoromethane	20.0	15.8		ug/L		79	32 - 152	5	20
Ethylbenzene	20.0	20.2		ug/L		101	79 - 121	1	20
Hexachlorobutadiene	20.0	20.6		ug/L		103	66 - 134	1	20
Isopropylbenzene	20.0	20.2		ug/L		101	72 - 131	0	20
m&p-Xylene	40.0	41.8		ug/L		104	80 - 121	1	20
Methyl tertiary butyl ether	20.0	17.9		ug/L		89	71 - 124	0	20
Methylene Chloride	20.0	20.2		ug/L		101	74 - 124	1	20
Naphthalene	20.0	19.8		ug/L		99	61 - 128	0	20
n-Butylbenzene	20.0	19.3		ug/L		96	75 - 128	0	20
N-Propylbenzene	20.0	20.7		ug/L		104	76 - 126	1	20
o-Xylene	20.0	20.5		ug/L		102	78 - 122	1	20
p-Isopropyltoluene	20.0	20.1		ug/L		101	77 - 127	1	20
sec-Butylbenzene	20.0	20.2		ug/L		101	77 - 126	0	20
Styrene	20.0	20.6		ug/L		103	78 - 123	0	20
tert-Butylbenzene	20.0	19.5		ug/L		97	78 - 124	1	20
Tetrachloroethene	20.0	22.1		ug/L		111	74 - 129	0	20
Toluene	20.0	20.7		ug/L		104	80 - 121	2	20
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124	2	20
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	73 - 127	1	20
Trichloroethene	20.0	20.1		ug/L		100	79 - 123	1	20
Trichlorofluoromethane	20.0	18.8		ug/L		94	65 - 141	2	20
Vinyl chloride	20.0	17.9		ug/L		89	58 - 137	6	20
Xylenes, Total	60.0	62.3		ug/L		104	79 - 121	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-59749/1-A

Matrix: Water

Analysis Batch: 60089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59749

Analysis Data: 00000										Prep Data: 00110		
Analyte	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac			
	Result	Qualifier										
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		10/29/20 17:40		1		
Surrogate	MB		Limits					Prepared	Analyzed	Dil Fac		
	%Recovery	Qualifier										
1,1,2,2-Tetrachloroethane (1C)	96		46 - 136					10/28/20 23:38	10/29/20 17:40		1	
1,1,2,2-Tetrachloroethane (2C)	97		46 - 136					10/28/20 23:38	10/29/20 17:40		1	

Lab Sample ID: LCS 410-59749/2-A

Matrix: Water

Analysis Batch: 60089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59749

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (1C)		0.128	0.168		ug/L		131	60 - 140	
Surrogate	LCS	LCS							
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136						
	99		46 - 136						

Lab Sample ID: LCSD 410-59749/3-A

Matrix: Water

Analysis Batch: 60089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 59749

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)		0.128	0.168		ug/L		132	60 - 140	0	20
Surrogate	LCSD	LCSD								
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier	Limits							
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136							
	102		46 - 136							

Lab Sample ID: MB 410-60632/1-A

Matrix: Water

Analysis Batch: 61166

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60632

Analyte	MB	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U		0.030	0.020	0.010	ug/L		11/02/20 18:08	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 410-60632/1-A

Matrix: Water

Analysis Batch: 61166

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60632

Surrogate	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	82		46 - 136	10/31/20 00:51	11/02/20 18:08	1
1,1,2,2-Tetrachloroethane (2C)	84		46 - 136	10/31/20 00:51	11/02/20 18:08	1

Lab Sample ID: LCS 410-60632/2-A

Matrix: Water

Analysis Batch: 61166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.107		ug/L		83	60 - 140
Surrogate	LCS %Recovery	Qualifier	Limits				
1,1,2,2-Tetrachloroethane (1C)	85		46 - 136				
1,1,2,2-Tetrachloroethane (2C)	84		46 - 136				

Lab Sample ID: LCSD 410-60632/3-A

Matrix: Water

Analysis Batch: 61166

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60632

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	0.128	0.102		ug/L		80	60 - 140	4	20
Surrogate	LCSD %Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (1C)	81		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	83		46 - 136						

Lab Sample ID: 410-18162-11 MS

Matrix: Water

Analysis Batch: 61761

Client Sample ID: GW028-204

Prep Type: Total/NA

Prep Batch: 60632

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	29	D M J1	0.123	27.8	D M 4	ug/L		-979	60 - 140
Surrogate	MS %Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (2C)	0	Q	46 - 136						

Lab Sample ID: 410-18162-11 MSD

Matrix: Water

Analysis Batch: 61761

Client Sample ID: GW028-204

Prep Type: Total/NA

Prep Batch: 60632

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide (1C)	29	D M J1	0.122	28.3	D M 4	ug/L		-577	60 - 140	2	20
Surrogate	MSD %Recovery	Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	543	J1 Q	46 - 136								

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-63039/4

Matrix: Water

Analysis Batch: 63039

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		11/06/20 10:45	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		11/06/20 10:45	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/06/20 10:45	1

Lab Sample ID: LCS 410-63039/3

Matrix: Water

Analysis Batch: 63039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.05		mg/L		94	90 - 110
Chloride	3.00	2.79		mg/L		93	90 - 110
Sulfate	7.50	7.20		mg/L		96	90 - 110

Lab Sample ID: MB 410-63711/4

Matrix: Water

Analysis Batch: 63711

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		11/07/20 14:42	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		11/07/20 14:42	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/07/20 14:42	1

Lab Sample ID: LCS 410-63711/3

Matrix: Water

Analysis Batch: 63711

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	6.90		mg/L		92	90 - 110
Chloride	3.00	2.75		mg/L		92	90 - 110
Sulfate	7.50	7.31		mg/L		97	90 - 110

Lab Sample ID: MB 410-66669/4

Matrix: Water

Analysis Batch: 66669

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		11/16/20 19:31	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		11/16/20 19:31	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/16/20 19:31	1

Lab Sample ID: LCS 410-66669/3

Matrix: Water

Analysis Batch: 66669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.74		mg/L		103	90 - 110
Chloride	3.00	3.10		mg/L		103	90 - 110
Sulfate	7.50	7.41		mg/L		99	90 - 110

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-66670/4

Matrix: Water

Analysis Batch: 66670

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		11/16/20 19:56	1
Chloride	0.30	U M	0.40	0.30	0.20	mg/L		11/16/20 19:56	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/16/20 19:56	1

Lab Sample ID: LCS 410-66670/3

Matrix: Water

Analysis Batch: 66670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.32		mg/L		98	90 - 110
Chloride	3.00	2.90		mg/L		97	90 - 110
Sulfate	7.50	7.34		mg/L		98	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-58198/1-A

Matrix: Water

Analysis Batch: 58484

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58198

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/26/20 08:11	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/26/20 08:11	1

Lab Sample ID: LCS 410-58198/2-A

Matrix: Water

Analysis Batch: 58484

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.431		mg/L		107	87 - 115
Manganese	0.0200	0.0212		mg/L		106	90 - 114

Lab Sample ID: MB 410-58244/1-A

Matrix: Water

Analysis Batch: 59308

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58244

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/27/20 21:43	1
Iron	0.10	U	0.20	0.10	0.040	mg/L		10/27/20 21:43	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/27/20 21:43	1
Manganese	0.0050	U	0.010	0.0050	0.0030	mg/L		10/27/20 21:43	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/27/20 21:43	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/27/20 21:43	1

Lab Sample ID: LCS 410-58244/2-A

Matrix: Water

Analysis Batch: 59308

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.382		mg/L		95	87 - 113
Iron	0.402	0.401		mg/L		100	87 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-58244/2-A

Matrix: Water

Analysis Batch: 59308

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	0.200	0.196		mg/L		98	85 - 113
Manganese	0.0200	0.0206		mg/L		103	90 - 114
Potassium	5.60	5.47		mg/L		98	86 - 114
Sodium	2.00	1.99		mg/L		99	87 - 115

Lab Sample ID: 410-18162-11 MS

Matrix: Water

Analysis Batch: 59308

Client Sample ID: GW028-204

Prep Type: Total Recoverable

Prep Batch: 58244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	120	J1	0.400	115	4	mg/L		-183	87 - 113
Magnesium	19	J1	0.200	18.8	4	mg/L		-6	85 - 113
Potassium	3.5		5.60	9.31		mg/L		104	86 - 114
Sodium	39	J1	2.00	40.3	4	mg/L		86	87 - 115

Lab Sample ID: 410-18162-11 MSD

Matrix: Water

Analysis Batch: 59308

Client Sample ID: GW028-204

Prep Type: Total Recoverable

Prep Batch: 58244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Calcium	120	J1	0.400	116	4	mg/L		60	87 - 113	1	20
Magnesium	19	J1	0.200	18.9	4	mg/L		26	85 - 113	0	20
Potassium	3.5		5.60	9.29		mg/L		104	86 - 114	0	20
Sodium	39	J1	2.00	40.2	4	mg/L		84	87 - 115	0	20

Lab Sample ID: 410-18162-11 DU

Matrix: Water

Analysis Batch: 59308

Client Sample ID: GW028-204

Prep Type: Total Recoverable

Prep Batch: 58244

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Calcium	120	J1	114		mg/L		2	20
Magnesium	19	J1	18.4		mg/L		2	20
Potassium	3.5		3.35		mg/L		4	20
Sodium	39	J1	37.6		mg/L		2	20

Lab Sample ID: 410-18162-11 MS

Matrix: Water

Analysis Batch: 58484

Client Sample ID: GW028-204

Prep Type: Dissolved

Prep Batch: 58198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	3.2	J1	0.402	3.54	4	mg/L		88	87 - 115
Manganese	4.0	J1	0.0200	3.99	4	mg/L		154	90 - 114

Lab Sample ID: 410-18162-11 MSD

Matrix: Water

Analysis Batch: 58484

Client Sample ID: GW028-204

Prep Type: Dissolved

Prep Batch: 58198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Iron	3.2	J1	0.402	3.52	4	mg/L		84	87 - 115	0	20
Manganese	4.0	J1	0.0200	3.95	4	mg/L		-67	90 - 114	1	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 6010C - Metals (ICP)

Lab Sample ID: 410-18162-11 DU

Matrix: Water

Analysis Batch: 58484

Client Sample ID: GW028-204

Prep Type: Dissolved

Prep Batch: 58198

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Iron	3.2	J1	3.16		mg/L		0.9	20
Manganese	4.0	J1	3.96		mg/L		0.1	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: 410-18162-11 MS

Matrix: Water

Analysis Batch: 61492

Client Sample ID: GW028-204

Prep Type: Total/NA

Prep Batch: 58989

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0016	U Q	0.0600	0.0655	Q	mg/L		109	84 - 116
Lead	0.00043	J	0.0300	0.0319		mg/L		105	88 - 115

Lab Sample ID: 410-18162-11 MSD

Matrix: Water

Analysis Batch: 61492

Client Sample ID: GW028-204

Prep Type: Total/NA

Prep Batch: 58989

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.0016	U Q	0.0600	0.0652	Q	mg/L		109	84 - 116	1	20
Lead	0.00043	J	0.0300	0.0320		mg/L		105	88 - 115	0	20

Lab Sample ID: 410-18162-11 DU

Matrix: Water

Analysis Batch: 61492

Client Sample ID: GW028-204

Prep Type: Total/NA

Prep Batch: 58989

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	0.0016	U Q	0.0016	U	mg/L		NC	20
Lead	0.00043	J	0.000433	J	mg/L		0.9	20

Lab Sample ID: MB 410-58187/1-A

Matrix: Water

Analysis Batch: 59423

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58187

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/27/20 14:24	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/27/20 14:24	1

Lab Sample ID: LCS 410-58187/2-A

Matrix: Water

Analysis Batch: 59423

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58187

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0648		mg/L		108	84 - 116
Lead	0.0300	0.0318		mg/L		106	88 - 115

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 410-58241/1-A

Matrix: Water

Analysis Batch: 58917

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58241

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/26/20 19:33	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/26/20 19:33	1

Lab Sample ID: LCS 410-58241/2-A

Matrix: Water

Analysis Batch: 58917

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0590		mg/L		98	84 - 116
Lead	0.0300	0.0310		mg/L		104	88 - 115

Lab Sample ID: MB 410-58989/1-A

Matrix: Water

Analysis Batch: 61492

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58989

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U Q	0.0020	0.0016	0.00068	mg/L		11/02/20 21:58	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		11/02/20 21:58	1

Lab Sample ID: LCS 410-58989/2-A

Matrix: Water

Analysis Batch: 61492

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0628	Q	mg/L		105	84 - 116
Lead	0.0300	0.0314		mg/L		105	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-59097/56

Matrix: Water

Analysis Batch: 59097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 02:19	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 02:19	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 02:19	1

Lab Sample ID: MB 410-59097/85

Matrix: Water

Analysis Batch: 59097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 05:23	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 05:23	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 05:23	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-59097/57

Matrix: Water

Analysis Batch: 59097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106

Lab Sample ID: LCS 410-59097/88

Matrix: Water

Analysis Batch: 59097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-67079/92

Matrix: Water

Analysis Batch: 67079

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/17/20 12:34	1

Lab Sample ID: LCS 410-67079/93

Matrix: Water

Analysis Batch: 67079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.37		mg/L		95	90 - 110

Lab Sample ID: 410-18162-7 MS

Matrix: Water

Analysis Batch: 67079

Client Sample ID: GWS3-449-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.090	U	1.00	1.00		mg/L		100	90 - 110

Lab Sample ID: 410-18162-7 DU

Matrix: Water

Analysis Batch: 67079

Client Sample ID: GWS3-449-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.090	U	0.090	U	mg/L		NC	10

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

GC/MS VOA

Analysis Batch: 61753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-10	ER204-02	Total/NA	Water	8260C DOD	
410-18162-13	GW008-204	Total/NA	Water	8260C DOD	
410-18162-13 - DL	GW008-204	Total/NA	Water	8260C DOD	
410-18162-14	GW008-604	Total/NA	Water	8260C DOD	
410-18162-14 - DL	GW008-604	Total/NA	Water	8260C DOD	
410-18162-15	GWS9-447-204	Total/NA	Water	8260C DOD	
MB 410-61753/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-61753/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-61753/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-61753/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-61753/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 61769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-7	GWS3-449-204	Total/NA	Water	8260C DOD	
410-18162-7 - DL	GWS3-449-204	Total/NA	Water	8260C DOD	
410-18162-8	GWS2-451-204	Total/NA	Water	8260C DOD	
410-18162-9	TB204-63	Total/NA	Water	8260C DOD	
410-18162-11	GW028-204	Total/NA	Water	8260C DOD	
410-18162-11 - DL	GW028-204	Total/NA	Water	8260C DOD	
410-18162-12	TB204-60	Total/NA	Water	8260C DOD	
MB 410-61769/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-61769/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-61769/6	Lab Control Sample	Total/NA	Water	8260C DOD	
410-18162-11 MS	GW028-204	Total/NA	Water	8260C DOD	
410-18162-11 MS	GW028-204	Total/NA	Water	8260C DOD	
410-18162-11 MSD	GW028-204	Total/NA	Water	8260C DOD	
410-18162-11 MSD	GW028-204	Total/NA	Water	8260C DOD	

Analysis Batch: 61889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-1	TB204-61	Total/NA	Water	8260C DOD	
410-18162-2	GWS4-446-204	Total/NA	Water	8260C DOD	
410-18162-3	GWS5-446-204	Total/NA	Water	8260C DOD	
410-18162-3 - DL	GWS5-446-204	Total/NA	Water	8260C DOD	
410-18162-4	GWS5-446-604	Total/NA	Water	8260C DOD	
410-18162-4 - DL	GWS5-446-604	Total/NA	Water	8260C DOD	
410-18162-5	TB204-62	Total/NA	Water	8260C DOD	
410-18162-6	GWS7-451-204	Total/NA	Water	8260C DOD	
410-18162-6 - DL	GWS7-451-204	Total/NA	Water	8260C DOD	
MB 410-61889/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-61889/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-61889/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-61889/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-61889/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 59749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-10	ER204-02	Total/NA	Water	8011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

GC Semi VOA (Continued)

Prep Batch: 59749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-13	GW008-204	Total/NA	Water	8011	
410-18162-14	GW008-604	Total/NA	Water	8011	
410-18162-15	GWS9-447-204	Total/NA	Water	8011	
MB 410-59749/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-59749/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-59749/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 60089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-10	ER204-02	Total/NA	Water	8011	59749
MB 410-59749/1-A	Method Blank	Total/NA	Water	8011	59749
LCS 410-59749/2-A	Lab Control Sample	Total/NA	Water	8011	59749
LCSD 410-59749/3-A	Lab Control Sample Dup	Total/NA	Water	8011	59749

Prep Batch: 60632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-1	TB204-61	Total/NA	Water	8011	
410-18162-2	GWS4-446-204	Total/NA	Water	8011	
410-18162-3	GWS5-446-204	Total/NA	Water	8011	
410-18162-4	GWS5-446-604	Total/NA	Water	8011	
410-18162-5	TB204-62	Total/NA	Water	8011	
410-18162-6	GWS7-451-204	Total/NA	Water	8011	
410-18162-7	GWS3-449-204	Total/NA	Water	8011	
410-18162-8	GWS2-451-204	Total/NA	Water	8011	
410-18162-9	TB204-63	Total/NA	Water	8011	
410-18162-11	GW028-204	Total/NA	Water	8011	
410-18162-12	TB204-60	Total/NA	Water	8011	
MB 410-60632/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-60632/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-60632/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
410-18162-11 MS	GW028-204	Total/NA	Water	8011	
410-18162-11 MSD	GW028-204	Total/NA	Water	8011	

Analysis Batch: 60671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-13	GW008-204	Total/NA	Water	8011	59749
410-18162-14	GW008-604	Total/NA	Water	8011	59749

Analysis Batch: 61166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-1	TB204-61	Total/NA	Water	8011	60632
410-18162-2	GWS4-446-204	Total/NA	Water	8011	60632
410-18162-5	TB204-62	Total/NA	Water	8011	60632
410-18162-9	TB204-63	Total/NA	Water	8011	60632
410-18162-12	TB204-60	Total/NA	Water	8011	60632
410-18162-15	GWS9-447-204	Total/NA	Water	8011	59749
MB 410-60632/1-A	Method Blank	Total/NA	Water	8011	60632
LCS 410-60632/2-A	Lab Control Sample	Total/NA	Water	8011	60632
LCSD 410-60632/3-A	Lab Control Sample Dup	Total/NA	Water	8011	60632

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

GC Semi VOA

Analysis Batch: 61761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-3	GWS5-446-204	Total/NA	Water	8011	60632
410-18162-4	GWS5-446-604	Total/NA	Water	8011	60632
410-18162-6	GWS7-451-204	Total/NA	Water	8011	60632
410-18162-7	GWS3-449-204	Total/NA	Water	8011	60632
410-18162-8	GWS2-451-204	Total/NA	Water	8011	60632
410-18162-11	GW028-204	Total/NA	Water	8011	60632
410-18162-11 MS	GW028-204	Total/NA	Water	8011	60632
410-18162-11 MSD	GW028-204	Total/NA	Water	8011	60632

HPLC/IC

Analysis Batch: 63039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-3	GWS5-446-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-4	GWS5-446-604	Total/NA	Water	EPA 300.0 R2.1	
410-18162-6	GWS7-451-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-6	GWS7-451-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-7	GWS3-449-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-8	GWS2-451-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-8	GWS2-451-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-11	GW028-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-11	GW028-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-13	GW008-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-13	GW008-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-14	GW008-604	Total/NA	Water	EPA 300.0 R2.1	
MB 410-63039/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-63039/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 63711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-15	GWS9-447-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-15	GWS9-447-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-63711/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-63711/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 66669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-2	GWS4-446-204	Total/NA	Water	EPA 300.0 R2.1	
410-18162-7	GWS3-449-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-66669/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-66669/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 66670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-14	GW008-604	Total/NA	Water	EPA 300.0 R2.1	
MB 410-66670/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-66670/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Metals

Prep Batch: 58187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Total/NA	Water	3005A	
MB 410-58187/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-58187/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 58198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Dissolved	Water	Non-Digest Prep	
410-18162-3	GWS5-446-204	Dissolved	Water	Non-Digest Prep	
410-18162-4	GWS5-446-604	Dissolved	Water	Non-Digest Prep	
410-18162-6	GWS7-451-204	Dissolved	Water	Non-Digest Prep	
410-18162-7	GWS3-449-204	Dissolved	Water	Non-Digest Prep	
410-18162-8	GWS2-451-204	Dissolved	Water	Non-Digest Prep	
410-18162-11	GW028-204	Dissolved	Water	Non-Digest Prep	
410-18162-13	GW008-204	Dissolved	Water	Non-Digest Prep	
410-18162-14	GW008-604	Dissolved	Water	Non-Digest Prep	
410-18162-15	GWS9-447-204	Dissolved	Water	Non-Digest Prep	
MB 410-58198/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-58198/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-18162-11 MS	GW028-204	Dissolved	Water	Non-Digest Prep	
410-18162-11 MSD	GW028-204	Dissolved	Water	Non-Digest Prep	
410-18162-11 DU	GW028-204	Dissolved	Water	Non-Digest Prep	

Prep Batch: 58241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-3	GWS5-446-204	Total/NA	Water	3005A	
410-18162-4	GWS5-446-604	Total/NA	Water	3005A	
410-18162-6	GWS7-451-204	Total/NA	Water	3005A	
410-18162-7	GWS3-449-204	Total/NA	Water	3005A	
410-18162-8	GWS2-451-204	Total/NA	Water	3005A	
410-18162-10	ER204-02	Total/NA	Water	3005A	
410-18162-13	GW008-204	Total/NA	Water	3005A	
410-18162-14	GW008-604	Total/NA	Water	3005A	
410-18162-15	GWS9-447-204	Total/NA	Water	3005A	
MB 410-58241/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-58241/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 58244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Total Recoverable	Water	3005A	
410-18162-3	GWS5-446-204	Total Recoverable	Water	3005A	
410-18162-4	GWS5-446-604	Total Recoverable	Water	3005A	
410-18162-6	GWS7-451-204	Total Recoverable	Water	3005A	
410-18162-7	GWS3-449-204	Total Recoverable	Water	3005A	
410-18162-8	GWS2-451-204	Total Recoverable	Water	3005A	
410-18162-10	ER204-02	Total Recoverable	Water	3005A	
410-18162-11	GW028-204	Total Recoverable	Water	3005A	
410-18162-13	GW008-204	Total Recoverable	Water	3005A	
410-18162-14	GW008-604	Total Recoverable	Water	3005A	
410-18162-15	GWS9-447-204	Total Recoverable	Water	3005A	
MB 410-58244/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-58244/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Metals (Continued)

Prep Batch: 58244 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-11 MS	GW028-204	Total Recoverable	Water	3005A	
410-18162-11 MSD	GW028-204	Total Recoverable	Water	3005A	
410-18162-11 DU	GW028-204	Total Recoverable	Water	3005A	

Analysis Batch: 58484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Dissolved	Water	6010C	58198
410-18162-3	GWS5-446-204	Dissolved	Water	6010C	58198
410-18162-4	GWS5-446-604	Dissolved	Water	6010C	58198
410-18162-6	GWS7-451-204	Dissolved	Water	6010C	58198
410-18162-7	GWS3-449-204	Dissolved	Water	6010C	58198
410-18162-8	GWS2-451-204	Dissolved	Water	6010C	58198
410-18162-11	GW028-204	Dissolved	Water	6010C	58198
410-18162-13	GW008-204	Dissolved	Water	6010C	58198
410-18162-14	GW008-604	Dissolved	Water	6010C	58198
410-18162-15	GWS9-447-204	Dissolved	Water	6010C	58198
MB 410-58198/1-A	Method Blank	Total/NA	Water	6010C	58198
LCS 410-58198/2-A	Lab Control Sample	Total/NA	Water	6010C	58198
410-18162-11 MS	GW028-204	Dissolved	Water	6010C	58198
410-18162-11 MSD	GW028-204	Dissolved	Water	6010C	58198
410-18162-11 DU	GW028-204	Dissolved	Water	6010C	58198

Analysis Batch: 58917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-3	GWS5-446-204	Total/NA	Water	6020A	58241
410-18162-4	GWS5-446-604	Total/NA	Water	6020A	58241
410-18162-6	GWS7-451-204	Total/NA	Water	6020A	58241
410-18162-7	GWS3-449-204	Total/NA	Water	6020A	58241
410-18162-8	GWS2-451-204	Total/NA	Water	6020A	58241
410-18162-10	ER204-02	Total/NA	Water	6020A	58241
410-18162-13	GW008-204	Total/NA	Water	6020A	58241
410-18162-14	GW008-604	Total/NA	Water	6020A	58241
410-18162-15	GWS9-447-204	Total/NA	Water	6020A	58241
MB 410-58241/1-A	Method Blank	Total Recoverable	Water	6020A	58241
LCS 410-58241/2-A	Lab Control Sample	Total Recoverable	Water	6020A	58241

Prep Batch: 58989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-11	GW028-204	Total/NA	Water	3005A	
MB 410-58989/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-58989/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-18162-11 MS	GW028-204	Total/NA	Water	3005A	
410-18162-11 MSD	GW028-204	Total/NA	Water	3005A	
410-18162-11 DU	GW028-204	Total/NA	Water	3005A	

Analysis Batch: 59308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Total Recoverable	Water	6010C	58244
410-18162-3	GWS5-446-204	Total Recoverable	Water	6010C	58244
410-18162-4	GWS5-446-604	Total Recoverable	Water	6010C	58244
410-18162-6	GWS7-451-204	Total Recoverable	Water	6010C	58244

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Metals (Continued)

Analysis Batch: 59308 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-7	GWS3-449-204	Total Recoverable	Water	6010C	58244
410-18162-8	GWS2-451-204	Total Recoverable	Water	6010C	58244
410-18162-10	ER204-02	Total Recoverable	Water	6010C	58244
410-18162-11	GW028-204	Total Recoverable	Water	6010C	58244
410-18162-13	GW008-204	Total Recoverable	Water	6010C	58244
410-18162-14	GW008-604	Total Recoverable	Water	6010C	58244
410-18162-15	GWS9-447-204	Total Recoverable	Water	6010C	58244
MB 410-58244/1-A	Method Blank	Total Recoverable	Water	6010C	58244
LCS 410-58244/2-A	Lab Control Sample	Total Recoverable	Water	6010C	58244
410-18162-11 MS	GW028-204	Total Recoverable	Water	6010C	58244
410-18162-11 MSD	GW028-204	Total Recoverable	Water	6010C	58244
410-18162-11 DU	GW028-204	Total Recoverable	Water	6010C	58244

Analysis Batch: 59423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Total/NA	Water	6020A	58187
MB 410-58187/1-A	Method Blank	Total Recoverable	Water	6020A	58187
LCS 410-58187/2-A	Lab Control Sample	Total Recoverable	Water	6020A	58187

Analysis Batch: 61492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-11	GW028-204	Total/NA	Water	6020A	58989
MB 410-58989/1-A	Method Blank	Total Recoverable	Water	6020A	58989
LCS 410-58989/2-A	Lab Control Sample	Total Recoverable	Water	6020A	58989
410-18162-11 MS	GW028-204	Total/NA	Water	6020A	58989
410-18162-11 MSD	GW028-204	Total/NA	Water	6020A	58989
410-18162-11 DU	GW028-204	Total/NA	Water	6020A	58989

General Chemistry

Analysis Batch: 59097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Total/NA	Water	2320B-2011	
410-18162-3	GWS5-446-204	Total/NA	Water	2320B-2011	
410-18162-4	GWS5-446-604	Total/NA	Water	2320B-2011	
410-18162-6	GWS7-451-204	Total/NA	Water	2320B-2011	
410-18162-7	GWS3-449-204	Total/NA	Water	2320B-2011	
410-18162-8	GWS2-451-204	Total/NA	Water	2320B-2011	
410-18162-11	GW028-204	Total/NA	Water	2320B-2011	
410-18162-13	GW008-204	Total/NA	Water	2320B-2011	
410-18162-14	GW008-604	Total/NA	Water	2320B-2011	
410-18162-15	GWS9-447-204	Total/NA	Water	2320B-2011	
MB 410-59097/56	Method Blank	Total/NA	Water	2320B-2011	
MB 410-59097/85	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-59097/57	Lab Control Sample	Total/NA	Water	2320B-2011	
LCS 410-59097/88	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 67079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-2	GWS4-446-204	Total/NA	Water	353.2	
410-18162-3	GWS5-446-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

General Chemistry (Continued)

Analysis Batch: 67079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18162-4	GWS5-446-604	Total/NA	Water	353.2	
410-18162-6	GWS7-451-204	Total/NA	Water	353.2	
410-18162-7	GWS3-449-204	Total/NA	Water	353.2	
410-18162-8	GWS2-451-204	Total/NA	Water	353.2	
410-18162-11	GW028-204	Total/NA	Water	353.2	
410-18162-13	GW008-204	Total/NA	Water	353.2	
410-18162-14	GW008-604	Total/NA	Water	353.2	
410-18162-15	GWS9-447-204	Total/NA	Water	353.2	
MB 410-67079/92	Method Blank	Total/NA	Water	353.2	
LCS 410-67079/93	Lab Control Sample	Total/NA	Water	353.2	
410-18162-7 MS	GWS3-449-204	Total/NA	Water	353.2	
410-18162-7 DU	GWS3-449-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: TB204-61

Date Collected: 10/22/20 12:00

Date Received: 10/23/20 10:31

Lab Sample ID: 410-18162-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61889	11/04/20 12:31	H9JD	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		1	61166	11/02/20 18:59	AC3T	ELLE

Client Sample ID: GWS4-446-204

Date Collected: 10/22/20 08:20

Date Received: 10/23/20 10:31

Lab Sample ID: 410-18162-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61889	11/04/20 15:54	H9JD	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		1	61166	11/02/20 19:17	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	66669	11/16/20 23:19	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		500	66669	11/16/20 23:37	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 08:55	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 22:39	UCIG	ELLE
Total/NA	Prep	3005A			58187	10/25/20 02:30	UJL8	ELLE
Total/NA	Analysis	6020A		1	59423	10/27/20 14:56	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 05:17	JB	ELLE
Total/NA	Analysis	353.2		5	67079	11/17/20 13:05	KGQ6	ELLE

Client Sample ID: GWS5-446-204

Date Collected: 10/22/20 11:15

Date Received: 10/23/20 10:31

Lab Sample ID: 410-18162-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		10	61889	11/04/20 17:36	H9JD	ELLE
Total/NA	Analysis	8260C DOD	DL	100	61889	11/04/20 17:56	H9JD	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		50	61761	11/04/20 00:19	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 02:23	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 08:58	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 22:42	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 19:47	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 04:50	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:06	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS5-446-604**Lab Sample ID: 410-18162-4****Date Collected: 10/22/20 11:15****Matrix: Water****Date Received: 10/23/20 10:31**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		10	61889	11/04/20 18:17	H9JD	ELLE
Total/NA	Analysis	8260C DOD	DL	100	61889	11/04/20 18:37	H9JD	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		50	61761	11/04/20 00:36	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 02:59	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 09:01	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 22:45	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 19:49	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 04:43	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:09	KGQ6	ELLE

Client Sample ID: TB204-62**Lab Sample ID: 410-18162-5****Date Collected: 10/22/20 12:00****Matrix: Water****Date Received: 10/23/20 10:31**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61889	11/04/20 12:52	H9JD	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		1	61166	11/02/20 20:07	AC3T	ELLE

Client Sample ID: GWS7-451-204**Lab Sample ID: 410-18162-6****Date Collected: 10/22/20 10:30****Matrix: Water****Date Received: 10/23/20 10:31**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		5	61889	11/04/20 16:55	H9JD	ELLE
Total/NA	Analysis	8260C DOD	DL	50	61889	11/04/20 17:15	H9JD	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		200	61761	11/04/20 00:52	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		10	63039	11/07/20 03:17	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 03:35	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 09:04	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 22:48	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 19:54	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 04:57	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:11	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS3-449-204

Lab Sample ID: 410-18162-7

Date Collected: 10/22/20 08:45

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		2	61769	11/04/20 04:01	TQ4J	ELLE
Total/NA	Analysis	8260C DOD	DL	20	61769	11/04/20 04:23	TQ4J	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		20	61761	11/04/20 01:09	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 08:41	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		25	66669	11/16/20 23:54	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 09:08	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 22:58	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 19:56	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 05:04	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:12	KGQ6	ELLE

Client Sample ID: GWS2-451-204

Lab Sample ID: 410-18162-8

Date Collected: 10/22/20 09:20

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		5	61769	11/04/20 04:45	TQ4J	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		200	61761	11/04/20 01:26	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 09:17	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	63039	11/07/20 09:35	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 09:11	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 23:01	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 19:58	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 05:11	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:15	KGQ6	ELLE

Client Sample ID: TB204-63

Lab Sample ID: 410-18162-9

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61769	11/03/20 23:37	TQ4J	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		1	61166	11/02/20 21:50	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: ER204-02

Lab Sample ID: 410-18162-10

Date Collected: 10/21/20 08:45

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61753	11/03/20 23:03	TQ4J	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	60089	10/30/20 00:28	AC3T	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 23:04	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 19:59	V5SW	ELLE

Client Sample ID: GW028-204

Lab Sample ID: 410-18162-11

Date Collected: 10/22/20 14:05

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		10	61769	11/04/20 01:27	TQ4J	ELLE
Total/NA	Analysis	8260C DOD	DL	100	61769	11/04/20 03:17	TQ4J	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		200	61761	11/04/20 01:42	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 09:53	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		10	63039	11/07/20 10:11	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 08:17	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 21:49	UCIG	ELLE
Total/NA	Prep	3005A			58989	10/27/20 10:36	UJLA	ELLE
Total/NA	Analysis	6020A		1	61492	11/02/20 22:02	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 06:40	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:16	KGQ6	ELLE

Client Sample ID: TB204-60

Lab Sample ID: 410-18162-12

Date Collected: 10/22/20 12:00

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61769	11/03/20 23:59	TQ4J	ELLE
Total/NA	Prep	8011			60632	10/31/20 00:51	UKQ8	ELLE
Total/NA	Analysis	8011		1	61166	11/02/20 22:58	AC3T	ELLE

Client Sample ID: GW008-204

Lab Sample ID: 410-18162-13

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		20	61753	11/04/20 03:06	TQ4J	ELLE
Total/NA	Analysis	8260C DOD	DL	200	61753	11/04/20 03:26	TQ4J	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GW008-204

Lab Sample ID: 410-18162-13

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		100	60671	10/31/20 11:01	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 10:29	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	63039	11/07/20 10:47	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 09:14	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 23:08	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 20:01	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 06:33	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:18	KGQ6	ELLE

Client Sample ID: GW008-604

Lab Sample ID: 410-18162-14

Date Collected: 10/21/20 16:42

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		20	61753	11/04/20 03:46	TQ4J	ELLE
Total/NA	Analysis	8260C DOD	DL	200	61753	11/04/20 04:06	TQ4J	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		100	60671	10/31/20 11:18	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		25	66670	11/17/20 01:03	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63039	11/07/20 11:42	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 09:18	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 23:11	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 20:03	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 06:25	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:19	KGQ6	ELLE

Client Sample ID: GWS9-447-204

Lab Sample ID: 410-18162-15

Date Collected: 10/21/20 14:20

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61753	11/04/20 02:05	TQ4J	ELLE
Total/NA	Prep	8011			59749	10/28/20 23:38	K2IL	ELLE
Total/NA	Analysis	8011		1	61166	11/02/20 17:17	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	63711	11/07/20 16:48	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	63711	11/07/20 17:06	W5UX	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Client Sample ID: GWS9-447-204

Lab Sample ID: 410-18162-15

Date Collected: 10/21/20 14:20

Matrix: Water

Date Received: 10/23/20 10:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			58198	10/25/20 04:11	UJL8	ELLE
Dissolved	Analysis	6010C		1	58484	10/26/20 09:27	ULJC	ELLE
Total Recoverable	Prep	3005A			58244	10/25/20 10:03	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	59308	10/27/20 23:15	UCIG	ELLE
Total/NA	Prep	3005A			58241	10/25/20 09:47	UJL8	ELLE
Total/NA	Analysis	6020A		1	58917	10/26/20 20:05	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 06:18	JB	ELLE
Total/NA	Analysis	353.2		1	67079	11/17/20 13:20	KGQ6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18162-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-18162-1	TB204-61	Water	10/22/20 12:00	10/23/20 10:31	
410-18162-2	GWS4-446-204	Water	10/22/20 08:20	10/23/20 10:31	
410-18162-3	GWS5-446-204	Water	10/22/20 11:15	10/23/20 10:31	
410-18162-4	GWS5-446-604	Water	10/22/20 11:15	10/23/20 10:31	
410-18162-5	TB204-62	Water	10/22/20 12:00	10/23/20 10:31	
410-18162-6	GWS7-451-204	Water	10/22/20 10:30	10/23/20 10:31	
410-18162-7	GWS3-449-204	Water	10/22/20 08:45	10/23/20 10:31	
410-18162-8	GWS2-451-204	Water	10/22/20 09:20	10/23/20 10:31	
410-18162-9	TB204-63	Water	10/22/20 12:00	10/23/20 10:31	
410-18162-10	ER204-02	Water	10/21/20 08:45	10/23/20 10:31	
410-18162-11	GW028-204	Water	10/22/20 14:05	10/23/20 10:31	
410-18162-12	TB204-60	Water	10/22/20 12:00	10/23/20 10:31	
410-18162-13	GW008-204	Water	10/21/20 16:42	10/23/20 10:31	
410-18162-14	GW008-604	Water	10/21/20 16:42	10/23/20 10:31	
410-18162-15	GWS9-447-204	Water	10/21/20 14:20	10/23/20 10:31	

Eurofins Lancaster Laboratories Env, LLC



410-18162 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				COC-TB204-61			
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020		QUARTER: 4											
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	COMMENTS	
1	TB204-61	10-22-2020	1200	4	2	—	—	2							
2															
3															
4															
5															
Associated with: GWS4-446-204 GWS5-446-204 GWS5-446-604															
SAMPLER(S): Nicole Peterson								COURIER AND SHIPPING NUMBER: FedEx 7718 7639 4320							
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: Nicole Peterson				10-22-2020	1630	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Reiff				10/23/20	1031				

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1925

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-S4-446-204

YEAR: 2020
QUARTER: 4 (Oct-Dec)

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)											COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Hg, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5423208)	Carbon Dioxide (RISK-175)	
1	GWS4-446-204	10-22-2020	0820	10	3	1	2	1	1*	1	1	1			
2															
3															
4															
5															
6															

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): *G. Begaye*

COURIER AND SHIPPING NUMBER: **FedEx 7718 7639 4320**

RELINQUISHED BY: DATE: 10/22/2020 TIME: 1630

RECEIVED BY: DATE: 10/23/20 TIME: 1031

Printed Name and Signature: *Gabeston Begaye*

Printed Name and Signature: *Nicole Reiff*

Printed Name and Signature: *[Signature]*

Printed Name and Signature: *[Signature]*

Printed Name and Signature: *[Signature]*

Printed Name and Signature: *[Signature]*

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-S5-446-204						
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)								
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258												
				ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	BTEXN	(B260C)	EDB	(9011)	Total (As, Pb, Cd, Ni, Mg)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	(RSK-175)	COMMENTS	
1	GWS5-446-204	10-22-2020	1115	10	3	—	—	—	2	1	1*	1	1	1	1	—	—	—	—	
2	GWS5-446-604	10-22-2020	1115	10	3	—	—	—	2	1	1*	1	1	1	1	—	—	—	—	
3																				
4																				
5																				
6																				
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																				
SAMPLER(S): <i>G. Beyre</i>										COURIER AND SHIPPING NUMBER: FedEx 7718 7637 4320										
RELINQUISHED BY:										RECEIVED BY:										
DATE										DATE										
TIME										TIME										
Printed Name and Signature: <i>Gabeon Beyre</i>										Printed Name and Signature: <i>Nicole Reiff</i>										
10/22/2020 1630										10/23/20 1031										
Printed Name and Signature:										Printed Name and Signature:										
Printed Name and Signature:										Printed Name and Signature:										

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				COC-TB204- 62			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				YEAR: 2020		QUARTER: 4			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2280C)	BTEX (2280C)	EDB (2280C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (542220B)	COMMENTS	
1	TB204- 62	10-22-2020	1200	4	2	—	2								
2															
3															
4															
5															
Associated with: GWS7-451-204 GWS3-449-204 GWS2-451-204															
SAMPLER(S): Nicole Peterson				COURIER AND SHIPPING NUMBER: FedEx 7718 7639 4331											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature:				10-22-2020		1630		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

gem

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-S7-451-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C) BTEX	BTEX (8260C) BTEN	EDB (8011)	Total Dissolved Fe, Mn (6020A/6010C) Total (As, Pb, Cd, Cu, Ni, Mo)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity/ Total Carbonate and Bicarbonate (353.2)	Carbon Dioxide (SM2320B)	(RSK-175) Methane	(RSK-175)	
1	GWS7-451-204	10-22-2020	1030	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **G. Begaye, J Livingston**

COURIER AND SHIPPING NUMBER: **FedEx 7718 7634 4331**

TB204-02

RELINQUISHED BY: **G. Begaye, J Livingston**

DATE: **10/22/2020**

TIME: **1630**

Printed Name and Signature: **G. Begaye, J Livingston**

Printed Name and Signature: **Nicole Reiff**

Printed Name and Signature: **Nicole Reiff**

Printed Name and Signature: **Nicole Reiff**

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-S3-449-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RISK-175)	Methane (RISK-175)	
1	GWS3-449-204	10-22-2020	0845	10	3			2	1	1*	1	1	1			
2																
3																
4																
5																
6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S): **G-Begaye**

COURIER AND SHIPPING NUMBER: **FedEx 7718 7639 4331**

TB204- **62**

RELINQUISHED BY:

DATE

TIME

Printed Name and Signature: **Galveston Begaye**

10/22/2020

1630

RECEIVED BY:

DATE

TIME

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature: **Nicole Reiff**

10/23/20

1035

gem

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400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1425

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-63

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lammont: tlammont@east.com EA
Amanda Smith: asmith@east.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA

YEAR: **2020**
QUARTER: **4**

PROJECT SITE AND PHASE: **ST106/SS111**

LAB PO NUMBER: **21295**

LAB CONTACT: **Kay Hower** KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (2000C)	BTEX (2000C)	BTEXN (2000C)	EDB (2011)	Total As, Pb, Cu, Ni, Mg (2020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3542)	(Total Carbonate, and Bicarbonate) (SM2320B)		
1	TB204-63	10-22-2020	1200	4	2			2							
2															
3															
4															
5															

Associated with: **GW028-204**
ER204-02

SAMPLER(S): **Nicole Peterson**

COURIER AND SHIPPING NUMBER: **FedEx 7718 7639 4342**

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Nicole Peterson <i>Nicole Peterson</i>	10-22-2020	1630	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: Wesley Miller <i>Wesley Miller</i>	10/22/2020	1634

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Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-ER204-02

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

YEAR:
2020

QUARTER:
4

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8250C)	BTEX (8250C)	BTEXN (8250C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	ER204-02	28 10-21-2020	0845	6	3	—	2	1							
2															
3															
4															
5															

Please add Fe and Mn to total metals analysis.

Associated with:
GW005-204
GW028-204

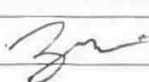
GW009-204
GW008-204
GW008-604

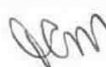
GW010-204
GW010-604

TB204-03

SAMPLER(S): **D. Schmeelk**

COURIER AND SHIPPING NUMBER: **7718 7639 4342**

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
D. Schmeelk 	10/22/2020	1630			
			Wesley Miller 	10/23/2020	1634



Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

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March 2021

F-2-1557

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 594-7000
Fax No. (410) 771-1025

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-028-204

YEAR:
2020

QUARTER:
4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As,Pb,Ca,K,Mg,Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M220B)	Carbon Dioxide (RSK-175)	Methane (RSC-175)		
1	GW028-204	10/22/2020	1405	24	9	-	-	6	3	3*	1	1	1	-	Please see Comments for requested MS/MSD analytes		
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Please run MS/MSD on the following analytes only:
VOCs/BTEX/BTEXN, EDB, Total As and Pb, and dissolved Mn and Fe

Pump Serial#: 1807B - 902

TB204- 63

SAMPLER(S):
Dylan Schmeelk, Amy Rosebroough

COURIER AND SHIPPING NUMBER:
FedEx 7718 7639 4342

RELINQUISHED BY:
Amy Rosebroough

DATE
10/22/2020

TIME
1630

RECEIVED BY:
Wesley Miller

DATE
10/23/2020

TIME
1034

Printed Name and Signature:
Amy Rosebroough

Printed Name and Signature:
Wesley Miller

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Page 103 of 107

12/18/2020 (Rev. 1)

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

F-2-1558

March 2021

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaast.com EA
Amanda Smith: asmith@eaast.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaast.com EA

COC NUMBER
COC-008-204

YEAR:
2020

QUARTER:
4 (Oct-Dec)

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
					VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)		
1	GW008-204	10/21/2020	1642	10	3	-	-	2	1	1*	1	1	1	-	-		
2	GW008-604	10/21/2020	1642	10	3	-	-	2	1	1*	1	1	1	-	-		
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

Pump SN: 1807B-902

SAMPLER(S):
A. Rosebrough, D. Schmaelk

RELINQUISHED BY:

DATE

TIME

COURIER AND SHIPPING NUMBER:
FedEx 7718 7639 4310

TB204- 60

Printed Name and Signature:
Amy Rosebrough, [Signature]

10/22/2020 1630

Printed Name and Signature:

Printed Name and Signature:

Printed Name and Signature:

Nicole Ruff [Signature] 10/23/20 1034

jm

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12/18/2020 (Rev. 1)

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

F-2-1560

March 2021

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1025

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

PROJECT SITE AND PHASE:
ST106/SS111

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-S9-447-204

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

YEAR: 2020
QUARTER: 4 (Oct-Dec)

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)													COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8260C)	Total (As, Pb, Ca, K, Na, Mg) (8011)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM2320B) (RSK-175)	Methane (RSK-175)		
1	GWS9-447-204	10-21-2020	1420	10	3	—	2	1	1*	1	1	1					
2																	
3																	
4																	
5																	
6																	

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
G. Begaye

RELINQUISHED BY:
Gabriel Begaye

DATE
10/22/2020

TIME
1630

COURIER AND SHIPPING NUMBER:
FedEx 7718 7639 4310

RECEIVED BY:
Nicole Ruff

DATE
10/23/20

TIME
1034

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12/18/2020 (Rev. 1)

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

F-2-1561

March 2021

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-18162-1

Login Number: 18162**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-18275-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/30/2020 4:43:17 PM

Darlene Bandy, Project Manager I
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy

Project Manager I

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Job ID: 410-18275-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-18275-1

Receipt

The samples were received on 10/24/2020 9:43 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3° C and 0.5° C.

GC/MS VOA

Method 8260C DOD: The response for Vinyl chloride, Chloroethane and Chloromethane in the initial and/or continuing calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-61769. Due to the marginal nature of the outlier(s), the data are reported.

Method 8260C DOD: The Continuing Calibration Verification (CCV) associated with 410-61769 is compliant under 8260C/D criteria for 2-Hexanone. The software does not display the data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the QC passes the criteria.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW005-204 (410-18275-1), GW010-204 (410-18275-2), GW010-604 (410-18275-3), GW075-204 (410-18275-5), TB204-64 (410-18275-6) and TB204-65 (410-18275-7). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: GW005-204 (410-18275-1). Elevated reporting limits (RLs) are provided.

Method 8260C DOD: The response for 2-Butanone in the continuing calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-61889. Due to the marginal nature of the outlier(s), the data are reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: GW059-204 (410-18275-4). The requested target analyte list includes Acrolein and Acrylonitrile, an acid-labile compound that degrades in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8011: The following samples required a dilution due to the nature of the sample matrix: GW010-204 (410-18275-2), GW010-604 (410-18275-3) and GW059-204 (410-18275-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8011: The following samples were diluted to bring the concentration of target analytes within the calibration range: GW005-204 (410-18275-1), GW010-204 (410-18275-2) and GW010-604 (410-18275-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6020A: The continuing calibration verification (CCV) associated with batch 410-61492 recovered above the upper control limit for As. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Job ID: 410-18275-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW005-204

Lab Sample ID: 410-18275-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	98	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	25	D	25	5.0	1.5	ug/L	5		8260C DOD	Total/NA
2-Butanone	13	J D	50	5.0	1.5	ug/L	5		8260C DOD	Total/NA
Acetone	28	J D	100	10	3.5	ug/L	5		8260C DOD	Total/NA
Benzene	860	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Ethylbenzene	230	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
Isopropylbenzene	18	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
m&p-Xylene	510	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
Naphthalene	64	D	25	10	5.0	ug/L	5		8260C DOD	Total/NA
n-Butylbenzene	3.4	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
N-Propylbenzene	17	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
o-Xylene	370	D	5.0	4.0	2.0	ug/L	5		8260C DOD	Total/NA
p-Isopropyltoluene	15	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
sec-Butylbenzene	16	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Toluene	1000	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Xylenes, Total	880		30	10	7.0	ug/L	5		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.40	D M	0.14	0.096	0.048	ug/L	5		8011	Total/NA
Bromide	1.8	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	180	D	40	30	20	mg/L	100		EPA 300.0 R2.1	Total/NA
Sulfate	3.5	J D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	170		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	27		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	4.0		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	72		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Manganese	1.7		0.010	0.0052	0.0031	mg/L	1		6010C	Recoverable Dissolved
Arsenic	0.0014	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00030	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	380		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	380		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.059	J J1	0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW010-204

Lab Sample ID: 410-18275-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	43	J D	50	20	10	ug/L	10		8260C DOD	Total/NA
1,2-Dibromoethane	8.1	J D	10	5.0	2.0	ug/L	10		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	16	J D	50	10	3.0	ug/L	10		8260C DOD	Total/NA
Acetone	14	J D	200	20	7.0	ug/L	10		8260C DOD	Total/NA
Benzene	1400	D	10	5.0	2.0	ug/L	10		8260C DOD	Total/NA
Ethylbenzene	510	D	10	8.0	4.0	ug/L	10		8260C DOD	Total/NA
Isopropylbenzene	30	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
m&p-Xylene	610	D	50	20	10	ug/L	10		8260C DOD	Total/NA
Naphthalene	24	J D	50	20	10	ug/L	10		8260C DOD	Total/NA
N-Propylbenzene	20	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
o-Xylene	320	D	10	8.0	4.0	ug/L	10		8260C DOD	Total/NA
p-Isopropyltoluene	27	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
sec-Butylbenzene	25	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW010-204 (Continued)

Lab Sample ID: 410-18275-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Xylenes, Total	930		60	20	14	ug/L	10			8260C DOD	Total/NA
Toluene - DL	3500	D	100	50	20	ug/L	100			8260C DOD	Total/NA
Ethylene Dibromide (1C)	8.2	D M	1.4	0.96	0.48	ug/L	50			8011	Total/NA
Chloride	23	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	3.1	J D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	65		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	9.4		0.10	0.075	0.040	mg/L	1			6010C	Recoverable Total
Potassium	2.7		0.50	0.38	0.20	mg/L	1			6010C	Recoverable Total
Sodium	29		1.0	0.50	0.24	mg/L	1			6010C	Recoverable Total
Iron	0.86		0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	1.8		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Lead	0.000091	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	220		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	220		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: GW010-604

Lab Sample ID: 410-18275-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	44	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
1,2-Dibromoethane	8.1	D	5.0	2.5	1.0	ug/L	5			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	16	J D	25	5.0	1.5	ug/L	5			8260C DOD	Total/NA
2-Butanone	1.6	J D	50	5.0	1.5	ug/L	5			8260C DOD	Total/NA
Acetone	12	J D	100	10	3.5	ug/L	5			8260C DOD	Total/NA
Benzene	1400	D	5.0	2.5	1.0	ug/L	5			8260C DOD	Total/NA
Ethylbenzene	520	D	5.0	4.0	2.0	ug/L	5			8260C DOD	Total/NA
Isopropylbenzene	31	D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
m&p-Xylene	620	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
Naphthalene	25	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
N-Propylbenzene	20	J D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
o-Xylene	320	D	5.0	4.0	2.0	ug/L	5			8260C DOD	Total/NA
p-Isopropyltoluene	15	J D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
sec-Butylbenzene	14	J D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
Xylenes, Total	940		30	10	7.0	ug/L	5			8260C DOD	Total/NA
Toluene - DL	3400	D	50	25	10	ug/L	50			8260C DOD	Total/NA
Ethylene Dibromide (1C)	7.8	D M	1.4	0.96	0.48	ug/L	50			8011	Total/NA
Chloride	23	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	3.1	J D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	66		0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	9.5		0.10	0.075	0.040	mg/L	1			6010C	Recoverable Total
Potassium	2.7		0.50	0.38	0.20	mg/L	1			6010C	Recoverable Total
Sodium	29		1.0	0.50	0.24	mg/L	1			6010C	Recoverable Total
Iron	0.85		0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	1.7		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Lead	0.00010	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW010-604 (Continued)

Lab Sample ID: 410-18275-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	220		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	220		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW059-204

Lab Sample ID: 410-18275-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	250	D	100	40	20	ug/L	20		8260C DOD	Total/NA
1,2-Dibromoethane	6.2	J D	20	10	4.0	ug/L	20		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	78	J D	100	20	6.0	ug/L	20		8260C DOD	Total/NA
2-Hexanone	65	J D	200	20	6.0	ug/L	20		8260C DOD	Total/NA
4-Methyl-2-pentanone	25	J D	200	20	10	ug/L	20		8260C DOD	Total/NA
Acetone	33	J D	400	40	14	ug/L	20		8260C DOD	Total/NA
Ethylbenzene	1000	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
Isopropylbenzene	56	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
m&p-Xylene	2300	D	100	40	20	ug/L	20		8260C DOD	Total/NA
Naphthalene	100	D	100	40	20	ug/L	20		8260C DOD	Total/NA
n-Butylbenzene	6.3	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
N-Propylbenzene	56	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
o-Xylene	950	D	20	16	8.0	ug/L	20		8260C DOD	Total/NA
p-Isopropyltoluene	12	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
sec-Butylbenzene	9.0	J D	100	10	4.0	ug/L	20		8260C DOD	Total/NA
Xylenes, Total	3300		120	40	28	ug/L	20		8260C DOD	Total/NA
Benzene - DL	15000	D	200	100	40	ug/L	200		8260C DOD	Total/NA
Toluene - DL	12000	D	200	100	40	ug/L	200		8260C DOD	Total/NA
Ethylene Dibromide (1C)	6.5	D M	1.4	0.95	0.48	ug/L	50		8011	Total/NA
Chloride	36	D	8.0	6.0	4.0	mg/L	20		EPA 300.0 R2.1	Total/NA
Calcium	120		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	20		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	3.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	36		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	7.9		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	3.3		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0031		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00062		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	390		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	390		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW075-204

Lab Sample ID: 410-18275-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	2.3	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.014	J	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Bromide	1.7	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	160	D	40	30	20	mg/L	100		EPA 300.0 R2.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW075-204 (Continued)

Lab Sample ID: 410-18275-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	220	D	100	90	30	mg/L	100		EPA 300.0 R2.1	Total/NA
Calcium	160		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	21		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.3		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	43		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.013		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Bicarbonate Alkalinity as CaCO ₃	90		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	90		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	6.1		0.50	0.45	0.20	mg/L	5		353.2	Total/NA

Client Sample ID: TB204-64

Lab Sample ID: 410-18275-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.55	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

Client Sample ID: TB204-65

Lab Sample ID: 410-18275-7

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.54	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW005-204

Lab Sample ID: 410-18275-1

Date Collected: 10/23/20 13:05

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 05:29	5
1,1,2,2-Tetrachloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
1,1,2-Trichloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
1,1-Dichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
1,1-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
1,1-Dichloropropene	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
1,2,3-Trichlorobenzene	5.0	U	25	5.0	2.0	ug/L		11/04/20 05:29	5
1,2,3-Trichloropropane	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
1,2,4-Trichlorobenzene	5.0	U	25	5.0	1.5	ug/L		11/04/20 05:29	5
1,2,4-Trimethylbenzene	98	D	25	10	5.0	ug/L		11/04/20 05:29	5
1,2-Dibromo-3-Chloropropane	5.0	U	25	5.0	1.5	ug/L		11/04/20 05:29	5
1,2-Dibromoethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
1,2-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
1,2-Dichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 05:29	5
1,2-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
1,3,5-Trimethylbenzene	25	D	25	5.0	1.5	ug/L		11/04/20 05:29	5
1,3-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
1,3-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
1,4-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
2,2-Dichloropropane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 05:29	5
2-Butanone	13	J D	50	5.0	1.5	ug/L		11/04/20 05:29	5
2-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
2-Hexanone	5.0	U Q M	50	5.0	1.5	ug/L		11/04/20 05:29	5
4-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
4-Methyl-2-pentanone	5.0	U	50	5.0	2.5	ug/L		11/04/20 05:29	5
Acetone	28	J D	100	10	3.5	ug/L		11/04/20 05:29	5
Acrolein	25	U	500	25	15	ug/L		11/04/20 05:29	5
Acrylonitrile	5.0	U M	100	5.0	1.5	ug/L		11/04/20 05:29	5
Benzene	860	D	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Bromobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
Bromochloromethane	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
Bromodichloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Bromoform	10	U	20	10	5.0	ug/L		11/04/20 05:29	5
Bromomethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 05:29	5
Carbon disulfide	2.5	U	25	2.5	1.0	ug/L		11/04/20 05:29	5
Carbon tetrachloride	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Chlorobenzene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Chloroethane	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Chloroform	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Chloromethane	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
cis-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Dibromochloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Dibromomethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Dichlorodifluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Ethylbenzene	230	D	5.0	4.0	2.0	ug/L		11/04/20 05:29	5
Hexachlorobutadiene	20	U	25	20	10	ug/L		11/04/20 05:29	5
Isopropylbenzene	18	J D	25	2.5	1.0	ug/L		11/04/20 05:29	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW005-204

Lab Sample ID: 410-18275-1

Date Collected: 10/23/20 13:05

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	510	D	25	10	5.0	ug/L		11/04/20 05:29	5
Methyl tertiary butyl ether	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Methylene Chloride	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 05:29	5
Naphthalene	64	D	25	10	5.0	ug/L		11/04/20 05:29	5
n-Butylbenzene	3.4	J D	25	2.5	1.0	ug/L		11/04/20 05:29	5
N-Propylbenzene	17	J D	25	2.5	1.0	ug/L		11/04/20 05:29	5
o-Xylene	370	D	5.0	4.0	2.0	ug/L		11/04/20 05:29	5
p-Isopropyltoluene	15	J D	25	2.5	1.0	ug/L		11/04/20 05:29	5
sec-Butylbenzene	16	J D	25	2.5	1.0	ug/L		11/04/20 05:29	5
Styrene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 05:29	5
tert-Butylbenzene	5.0	U M	25	5.0	1.5	ug/L		11/04/20 05:29	5
Tetrachloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Toluene	1000	D	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Trichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Vinyl acetate	10	U	50	10	3.5	ug/L		11/04/20 05:29	5
Vinyl chloride	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 05:29	5
Xylenes, Total	880		30	10	7.0	ug/L		11/04/20 05:29	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/04/20 05:29	5
4-Bromofluorobenzene (Surr)	99		85 - 114		11/04/20 05:29	5
Dibromofluoromethane (Surr)	98		80 - 119		11/04/20 05:29	5
Toluene-d8 (Surr)	99		89 - 112		11/04/20 05:29	5

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.40	D M	0.14	0.096	0.048	ug/L		11/03/20 21:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	132	M	46 - 136	10/31/20 00:59	11/03/20 21:32	5
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	10/31/20 00:59	11/03/20 21:32	5

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.8	J D	2.5	2.0	1.3	mg/L		11/14/20 16:55	5
Chloride	180	D	40	30	20	mg/L		11/14/20 17:12	100
Sulfate	3.5	J D	5.0	4.5	1.5	mg/L		11/14/20 16:55	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	170		0.20	0.15	0.096	mg/L		10/29/20 13:10	1
Magnesium	27		0.10	0.075	0.040	mg/L		10/29/20 13:10	1
Potassium	4.0		0.50	0.38	0.20	mg/L		10/29/20 13:10	1
Sodium	72		1.0	0.50	0.24	mg/L		10/29/20 13:10	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/31/20 11:58	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW005-204

Lab Sample ID: 410-18275-1

Date Collected: 10/23/20 13:05

Matrix: Water

Date Received: 10/24/20 09:43

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	1.7		0.010	0.0052	0.0031	mg/L		11/02/20 09:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0014	J	0.0020	0.0016	0.00068	mg/L		11/03/20 17:25	1
Lead	0.00030	J	0.00050	0.00025	0.000071	mg/L		11/02/20 22:26	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	380		8.0	6.0	2.6	mg/L		10/27/20 03:57	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 03:57	1
Total Alkalinity as CaCO ₃ to pH 4.5	380		8.0	6.0	2.6	mg/L		10/27/20 03:57	1
Nitrate Nitrite as N	0.059	J J1	0.10	0.090	0.040	mg/L		11/18/20 18:04	1

Client Sample ID: GW010-204

Lab Sample ID: 410-18275-2

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
1,1,1-Trichloroethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 06:13	10
1,1,2,2-Tetrachloroethane	5.0	U M	10	5.0	2.0	ug/L		11/04/20 06:13	10
1,1,2-Trichloroethane	5.0	U M	10	5.0	2.0	ug/L		11/04/20 06:13	10
1,1-Dichloroethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
1,1-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
1,1-Dichloropropene	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
1,2,3-Trichlorobenzene	10	U	50	10	4.0	ug/L		11/04/20 06:13	10
1,2,3-Trichloropropane	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
1,2,4-Trichlorobenzene	10	U	50	10	3.0	ug/L		11/04/20 06:13	10
1,2,4-Trimethylbenzene	43	J D	50	20	10	ug/L		11/04/20 06:13	10
1,2-Dibromo-3-Chloropropane	10	U	50	10	3.0	ug/L		11/04/20 06:13	10
1,2-Dibromoethane	8.1	J D	10	5.0	2.0	ug/L		11/04/20 06:13	10
1,2-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
1,2-Dichloroethane	5.0	U M	10	5.0	3.0	ug/L		11/04/20 06:13	10
1,2-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
1,3,5-Trimethylbenzene	16	J D	50	10	3.0	ug/L		11/04/20 06:13	10
1,3-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
1,3-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
1,4-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
2,2-Dichloropropane	5.0	U	10	5.0	3.0	ug/L		11/04/20 06:13	10
2-Butanone	10	U	100	10	3.0	ug/L		11/04/20 06:13	10
2-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
2-Hexanone	10	U Q M	100	10	3.0	ug/L		11/04/20 06:13	10
4-Chlorotoluene	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
4-Methyl-2-pentanone	10	U M	100	10	5.0	ug/L		11/04/20 06:13	10
Acetone	14	J D	200	20	7.0	ug/L		11/04/20 06:13	10
Acrolein	50	U	1000	50	30	ug/L		11/04/20 06:13	10
Acrylonitrile	10	U	200	10	3.0	ug/L		11/04/20 06:13	10
Benzene	1400	D	10	5.0	2.0	ug/L		11/04/20 06:13	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW010-204

Lab Sample ID: 410-18275-2

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
Bromochloromethane	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
Bromodichloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Bromoform	20	U	40	20	10	ug/L		11/04/20 06:13	10
Bromomethane	5.0	U	10	5.0	3.0	ug/L		11/04/20 06:13	10
Carbon disulfide	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
Carbon tetrachloride	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Chlorobenzene	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Chloroethane	5.0	U Q	10	5.0	2.0	ug/L		11/04/20 06:13	10
Chloroform	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Chloromethane	5.0	U Q	10	5.0	2.0	ug/L		11/04/20 06:13	10
cis-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
cis-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Dibromochloromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Dibromomethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Dichlorodifluoromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Ethylbenzene	510	D	10	8.0	4.0	ug/L		11/04/20 06:13	10
Hexachlorobutadiene	40	U	50	40	20	ug/L		11/04/20 06:13	10
Isopropylbenzene	30	J D	50	5.0	2.0	ug/L		11/04/20 06:13	10
m&p-Xylene	610	D	50	20	10	ug/L		11/04/20 06:13	10
Methyl tertiary butyl ether	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Methylene Chloride	5.0	U	10	5.0	3.0	ug/L		11/04/20 06:13	10
Naphthalene	24	J D	50	20	10	ug/L		11/04/20 06:13	10
n-Butylbenzene	5.0	U	50	5.0	2.0	ug/L		11/04/20 06:13	10
N-Propylbenzene	20	J D	50	5.0	2.0	ug/L		11/04/20 06:13	10
o-Xylene	320	D	10	8.0	4.0	ug/L		11/04/20 06:13	10
p-Isopropyltoluene	27	J D	50	5.0	2.0	ug/L		11/04/20 06:13	10
sec-Butylbenzene	25	J D	50	5.0	2.0	ug/L		11/04/20 06:13	10
Styrene	5.0	U M	50	5.0	2.0	ug/L		11/04/20 06:13	10
tert-Butylbenzene	10	U	50	10	3.0	ug/L		11/04/20 06:13	10
Tetrachloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
trans-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
trans-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Trichloroethene	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Trichlorofluoromethane	5.0	U	10	5.0	2.0	ug/L		11/04/20 06:13	10
Vinyl acetate	20	U	100	20	7.0	ug/L		11/04/20 06:13	10
Vinyl chloride	5.0	U Q	10	5.0	2.0	ug/L		11/04/20 06:13	10
Xylenes, Total	930		60	20	14	ug/L		11/04/20 06:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/04/20 06:13	10
4-Bromofluorobenzene (Surr)	98		85 - 114		11/04/20 06:13	10
Dibromofluoromethane (Surr)	99		80 - 119		11/04/20 06:13	10
Toluene-d8 (Surr)	98		89 - 112		11/04/20 06:13	10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Toluene	3500	D	100	50	20	ug/L		11/04/20 06:35	100

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW010-204

Lab Sample ID: 410-18275-2

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/04/20 06:35	100
4-Bromofluorobenzene (Surr)	99		85 - 114		11/04/20 06:35	100
Dibromofluoromethane (Surr)	100		80 - 119		11/04/20 06:35	100
Toluene-d8 (Surr)	99		89 - 112		11/04/20 06:35	100

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	8.2	D M	1.4	0.96	0.48	ug/L		11/03/20 21:48	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	174	Q	46 - 136	10/31/20 00:59	11/03/20 21:48	50
1,1,2,2-Tetrachloroethane (2C)	162	Q	46 - 136	10/31/20 00:59	11/03/20 21:48	50

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/14/20 17:29	5
Chloride	23	D	2.0	1.5	1.0	mg/L		11/14/20 17:29	5
Sulfate	3.1	J D	5.0	4.5	1.5	mg/L		11/14/20 17:29	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	65		0.20	0.15	0.096	mg/L		10/29/20 13:13	1
Magnesium	9.4		0.10	0.075	0.040	mg/L		10/29/20 13:13	1
Potassium	2.7		0.50	0.38	0.20	mg/L		10/29/20 13:13	1
Sodium	29		1.0	0.50	0.24	mg/L		10/29/20 13:13	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.86		0.21	0.10	0.041	mg/L		10/31/20 12:01	1
Manganese	1.8		0.010	0.0052	0.0031	mg/L		11/02/20 09:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U Q	0.0020	0.0016	0.00068	mg/L		11/02/20 22:28	1
Lead	0.000091	J	0.00050	0.00025	0.000071	mg/L		11/02/20 22:28	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	220		8.0	6.0	2.6	mg/L		10/27/20 03:50	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 03:50	1
Total Alkalinity as CaCO3 to pH 4.5	220		8.0	6.0	2.6	mg/L		10/27/20 03:50	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:09	1

Client Sample ID: GW010-604

Lab Sample ID: 410-18275-3

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 06:56	5
1,1,2,2-Tetrachloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 06:56	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW010-604

Lab Sample ID: 410-18275-3

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,2-Trichloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
1,1-Dichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
1,1-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
1,1-Dichloropropene	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
1,2,3-Trichlorobenzene	5.0	U	25	5.0	2.0	ug/L		11/04/20 06:56	5
1,2,3-Trichloropropane	2.5	U M	25	2.5	1.0	ug/L		11/04/20 06:56	5
1,2,4-Trichlorobenzene	5.0	U	25	5.0	1.5	ug/L		11/04/20 06:56	5
1,2,4-Trimethylbenzene	44	D	25	10	5.0	ug/L		11/04/20 06:56	5
1,2-Dibromo-3-Chloropropane	5.0	U	25	5.0	1.5	ug/L		11/04/20 06:56	5
1,2-Dibromoethane	8.1	D	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
1,2-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
1,2-Dichloroethane	2.5	U M	5.0	2.5	1.5	ug/L		11/04/20 06:56	5
1,2-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
1,3,5-Trimethylbenzene	16	J D	25	5.0	1.5	ug/L		11/04/20 06:56	5
1,3-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
1,3-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
1,4-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
2,2-Dichloropropane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 06:56	5
2-Butanone	1.6	J D	50	5.0	1.5	ug/L		11/04/20 06:56	5
2-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
2-Hexanone	5.0	U Q M	50	5.0	1.5	ug/L		11/04/20 06:56	5
4-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
4-Methyl-2-pentanone	5.0	U	50	5.0	2.5	ug/L		11/04/20 06:56	5
Acetone	12	J D	100	10	3.5	ug/L		11/04/20 06:56	5
Acrolein	25	U	500	25	15	ug/L		11/04/20 06:56	5
Acrylonitrile	5.0	U	100	5.0	1.5	ug/L		11/04/20 06:56	5
Benzene	1400	D	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Bromobenzene	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
Bromochloromethane	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
Bromodichloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Bromoform	10	U	20	10	5.0	ug/L		11/04/20 06:56	5
Bromomethane	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 06:56	5
Carbon disulfide	2.5	U	25	2.5	1.0	ug/L		11/04/20 06:56	5
Carbon tetrachloride	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Chlorobenzene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Chloroethane	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Chloroform	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Chloromethane	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
cis-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Dibromochloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Dibromomethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Dichlorodifluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Ethylbenzene	520	D	5.0	4.0	2.0	ug/L		11/04/20 06:56	5
Hexachlorobutadiene	20	U	25	20	10	ug/L		11/04/20 06:56	5
Isopropylbenzene	31	D	25	2.5	1.0	ug/L		11/04/20 06:56	5
m&p-Xylene	620	D	25	10	5.0	ug/L		11/04/20 06:56	5
Methyl tertiary butyl ether	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Methylene Chloride	2.5	U	5.0	2.5	1.5	ug/L		11/04/20 06:56	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW010-604

Lab Sample ID: 410-18275-3

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Naphthalene	25	D	25	10	5.0	ug/L		11/04/20 06:56	5
n-Butylbenzene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 06:56	5
N-Propylbenzene	20	J D	25	2.5	1.0	ug/L		11/04/20 06:56	5
o-Xylene	320	D	5.0	4.0	2.0	ug/L		11/04/20 06:56	5
p-Isopropyltoluene	15	J D	25	2.5	1.0	ug/L		11/04/20 06:56	5
sec-Butylbenzene	14	J D	25	2.5	1.0	ug/L		11/04/20 06:56	5
Styrene	2.5	U M	25	2.5	1.0	ug/L		11/04/20 06:56	5
tert-Butylbenzene	5.0	U M	25	5.0	1.5	ug/L		11/04/20 06:56	5
Tetrachloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Trichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Vinyl acetate	10	U	50	10	3.5	ug/L		11/04/20 06:56	5
Vinyl chloride	2.5	U Q	5.0	2.5	1.0	ug/L		11/04/20 06:56	5
Xylenes, Total	940		30	10	7.0	ug/L		11/04/20 06:56	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		81 - 118		11/04/20 06:56	5
4-Bromofluorobenzene (Surr)	97		85 - 114		11/04/20 06:56	5
Dibromofluoromethane (Surr)	98		80 - 119		11/04/20 06:56	5
Toluene-d8 (Surr)	98		89 - 112		11/04/20 06:56	5

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Toluene	3400	D	50	25	10	ug/L		11/04/20 07:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/04/20 07:18	50
4-Bromofluorobenzene (Surr)	98		85 - 114		11/04/20 07:18	50
Dibromofluoromethane (Surr)	99		80 - 119		11/04/20 07:18	50
Toluene-d8 (Surr)	99		89 - 112		11/04/20 07:18	50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	7.8	D M	1.4	0.96	0.48	ug/L		11/03/20 22:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	252	J1 Q	46 - 136	10/31/20 00:59	11/03/20 22:05	50
1,1,2,2-Tetrachloroethane (2C)	136	J1	46 - 136	10/31/20 00:59	11/03/20 22:05	50

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/14/20 18:03	5
Chloride	23	D	2.0	1.5	1.0	mg/L		11/14/20 18:03	5
Sulfate	3.1	J D	5.0	4.5	1.5	mg/L		11/14/20 18:03	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	66		0.20	0.15	0.096	mg/L		10/29/20 13:16	1
Magnesium	9.5		0.10	0.075	0.040	mg/L		10/29/20 13:16	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW010-604

Lab Sample ID: 410-18275-3

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Method: 6010C - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	2.7		0.50	0.38	0.20	mg/L		10/29/20 13:16	1
Sodium	29		1.0	0.50	0.24	mg/L		10/29/20 13:16	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.85		0.21	0.10	0.041	mg/L		10/31/20 12:04	1
Manganese	1.7		0.010	0.0052	0.0031	mg/L		11/02/20 09:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U Q	0.0020	0.0016	0.00068	mg/L		11/02/20 22:30	1
Lead	0.00010	J	0.00050	0.00025	0.000071	mg/L		11/02/20 22:30	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	220		8.0	6.0	2.6	mg/L		10/27/20 04:03	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 04:03	1
Total Alkalinity as CaCO ₃ to pH 4.5	220		8.0	6.0	2.6	mg/L		10/27/20 04:03	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:13	1

Client Sample ID: GW059-204

Lab Sample ID: 410-18275-4

Date Collected: 10/23/20 16:36

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
1,1,1-Trichloroethane	10	U	20	10	6.0	ug/L		11/04/20 18:57	20
1,1,2,2-Tetrachloroethane	10	U M	20	10	4.0	ug/L		11/04/20 18:57	20
1,1,2-Trichloroethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
1,1-Dichloroethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
1,1-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
1,1-Dichloropropene	10	U	100	10	4.0	ug/L		11/04/20 18:57	20
1,2,3-Trichlorobenzene	20	U	100	20	8.0	ug/L		11/04/20 18:57	20
1,2,3-Trichloropropane	10	U M	100	10	4.0	ug/L		11/04/20 18:57	20
1,2,4-Trichlorobenzene	20	U	100	20	6.0	ug/L		11/04/20 18:57	20
1,2,4-Trimethylbenzene	250	D	100	40	20	ug/L		11/04/20 18:57	20
1,2-Dibromo-3-Chloropropane	20	U	100	20	6.0	ug/L		11/04/20 18:57	20
1,2-Dibromoethane	6.2	J D	20	10	4.0	ug/L		11/04/20 18:57	20
1,2-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 18:57	20
1,2-Dichloroethane	10	U	20	10	6.0	ug/L		11/04/20 18:57	20
1,2-Dichloropropane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
1,3,5-Trimethylbenzene	78	J D	100	20	6.0	ug/L		11/04/20 18:57	20
1,3-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 18:57	20
1,3-Dichloropropane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
1,4-Dichlorobenzene	10	U	100	10	4.0	ug/L		11/04/20 18:57	20
2,2-Dichloropropane	10	U	20	10	6.0	ug/L		11/04/20 18:57	20
2-Butanone	20	U Q	200	20	6.0	ug/L		11/04/20 18:57	20
2-Chlorotoluene	10	U	100	10	4.0	ug/L		11/04/20 18:57	20
2-Hexanone	65	J D	200	20	6.0	ug/L		11/04/20 18:57	20
4-Chlorotoluene	10	U	100	10	4.0	ug/L		11/04/20 18:57	20

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW059-204

Lab Sample ID: 410-18275-4

Date Collected: 10/23/20 16:36

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
4-Methyl-2-pentanone	25	J D	200	20	10	ug/L		11/04/20 18:57	20
Acetone	33	J D	400	40	14	ug/L		11/04/20 18:57	20
Acrolein	100	U	2000	100	60	ug/L		11/04/20 18:57	20
Acrylonitrile	20	U	400	20	6.0	ug/L		11/04/20 18:57	20
Bromobenzene	10	U	100	10	4.0	ug/L		11/04/20 18:57	20
Bromochloromethane	10	U	100	10	4.0	ug/L		11/04/20 18:57	20
Bromodichloromethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Bromoform	40	U	80	40	20	ug/L		11/04/20 18:57	20
Bromomethane	10	U	20	10	6.0	ug/L		11/04/20 18:57	20
Carbon disulfide	10	U	100	10	4.0	ug/L		11/04/20 18:57	20
Carbon tetrachloride	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Chlorobenzene	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Chloroethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Chloroform	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Chloromethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
cis-1,2-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
cis-1,3-Dichloropropene	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Dibromochloromethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Dibromomethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Dichlorodifluoromethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Ethylbenzene	1000	D	20	16	8.0	ug/L		11/04/20 18:57	20
Hexachlorobutadiene	80	U	100	80	40	ug/L		11/04/20 18:57	20
Isopropylbenzene	56	J D	100	10	4.0	ug/L		11/04/20 18:57	20
m&p-Xylene	2300	D	100	40	20	ug/L		11/04/20 18:57	20
Methyl tertiary butyl ether	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Methylene Chloride	10	U	20	10	6.0	ug/L		11/04/20 18:57	20
Naphthalene	100	D	100	40	20	ug/L		11/04/20 18:57	20
n-Butylbenzene	6.3	J D	100	10	4.0	ug/L		11/04/20 18:57	20
N-Propylbenzene	56	J D	100	10	4.0	ug/L		11/04/20 18:57	20
o-Xylene	950	D	20	16	8.0	ug/L		11/04/20 18:57	20
p-Isopropyltoluene	12	J D	100	10	4.0	ug/L		11/04/20 18:57	20
sec-Butylbenzene	9.0	J D	100	10	4.0	ug/L		11/04/20 18:57	20
Styrene	10	U M	100	10	4.0	ug/L		11/04/20 18:57	20
tert-Butylbenzene	20	U	100	20	6.0	ug/L		11/04/20 18:57	20
Tetrachloroethene	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
trans-1,2-Dichloroethene	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
trans-1,3-Dichloropropene	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Trichloroethene	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Trichlorofluoromethane	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Vinyl acetate	40	U	200	40	14	ug/L		11/04/20 18:57	20
Vinyl chloride	10	U	20	10	4.0	ug/L		11/04/20 18:57	20
Xylenes, Total	3300		120	40	28	ug/L		11/04/20 18:57	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/04/20 18:57	20
4-Bromofluorobenzene (Surr)	96		85 - 114		11/04/20 18:57	20
Dibromofluoromethane (Surr)	94		80 - 119		11/04/20 18:57	20
Toluene-d8 (Surr)	99		89 - 112		11/04/20 18:57	20

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW059-204

Lab Sample ID: 410-18275-4

Date Collected: 10/23/20 16:36

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	15000	D	200	100	40	ug/L		11/04/20 19:17	200
Toluene	12000	D	200	100	40	ug/L		11/04/20 19:17	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		11/04/20 19:17	200
4-Bromofluorobenzene (Surr)	93		85 - 114		11/04/20 19:17	200
Dibromofluoromethane (Surr)	96		80 - 119		11/04/20 19:17	200
Toluene-d8 (Surr)	99		89 - 112		11/04/20 19:17	200

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	6.5	D M	1.4	0.95	0.48	ug/L		11/03/20 22:22	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	88	J1	46 - 136	10/31/20 00:59	11/03/20 22:22	50
1,1,2,2-Tetrachloroethane (2C)	221	J1 Q	46 - 136	10/31/20 00:59	11/03/20 22:22	50

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/14/20 19:11	5
Chloride	36	D	8.0	6.0	4.0	mg/L		11/14/20 19:28	20
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/14/20 19:11	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	120		0.20	0.15	0.096	mg/L		10/29/20 12:39	1
Magnesium	20		0.10	0.075	0.040	mg/L		10/29/20 12:39	1
Potassium	3.6		0.50	0.38	0.20	mg/L		10/29/20 12:39	1
Sodium	36		1.0	0.50	0.24	mg/L		10/29/20 12:39	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	7.9		0.21	0.10	0.041	mg/L		10/31/20 12:07	1
Manganese	3.3		0.010	0.0052	0.0031	mg/L		11/02/20 09:15	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0031		0.0020	0.0016	0.00068	mg/L		11/03/20 17:26	1
Lead	0.00062		0.00050	0.00025	0.000071	mg/L		11/02/20 22:32	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	390		8.0	6.0	2.6	mg/L		10/27/20 03:43	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 03:43	1
Total Alkalinity as CaCO3 to pH 4.5	390		8.0	6.0	2.6	mg/L		10/27/20 03:43	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 18:07	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW075-204

Lab Sample ID: 410-18275-5

Date Collected: 10/23/20 09:11

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 03:39	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 03:39	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 03:39	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 03:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 03:39	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 03:39	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 03:39	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 03:39	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 03:39	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
2-Hexanone	1.0	U Q M	10	1.0	0.30	ug/L		11/04/20 03:39	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 03:39	1
Acetone	1.4	J	20	2.0	0.70	ug/L		11/04/20 03:39	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 03:39	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 03:39	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 03:39	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 03:39	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 03:39	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 03:39	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW075-204

Lab Sample ID: 410-18275-5

Date Collected: 10/23/20 09:11

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 03:39	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 03:39	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 03:39	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 03:39	1
p-Isopropyltoluene	2.4	J	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
sec-Butylbenzene	2.3	J	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 03:39	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 03:39	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 03:39	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 03:39	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		11/04/20 03:39	1
4-Bromofluorobenzene (Surr)	97		85 - 114		11/04/20 03:39	1
Dibromofluoromethane (Surr)	100		80 - 119		11/04/20 03:39	1
Toluene-d8 (Surr)	98		89 - 112		11/04/20 03:39	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.014	J	0.029	0.019	0.0096	ug/L		11/03/20 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	115		46 - 136	10/31/20 00:59	11/03/20 22:39	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/31/20 00:59	11/03/20 22:39	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.7	J D	2.5	2.0	1.3	mg/L		11/14/20 20:19	5
Chloride	160	D	40	30	20	mg/L		11/14/20 20:36	100
Sulfate	220	D	100	90	30	mg/L		11/14/20 20:36	100

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	160		0.20	0.15	0.096	mg/L		10/29/20 12:42	1
Magnesium	21		0.10	0.075	0.040	mg/L		10/29/20 12:42	1
Potassium	4.3		0.50	0.38	0.20	mg/L		10/29/20 12:42	1
Sodium	43		1.0	0.50	0.24	mg/L		10/29/20 12:42	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/31/20 12:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW075-204

Lab Sample ID: 410-18275-5

Date Collected: 10/23/20 09:11

Matrix: Water

Date Received: 10/24/20 09:43

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	0.013		0.010	0.0052	0.0031	mg/L		11/02/20 09:19	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U Q	0.0020	0.0016	0.00068	mg/L		11/02/20 22:34	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		11/02/20 22:34	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	90		8.0	6.0	2.6	mg/L		10/27/20 04:09	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 04:09	1
Total Alkalinity as CaCO ₃ to pH 4.5	90		8.0	6.0	2.6	mg/L		10/27/20 04:09	1
Nitrate Nitrite as N	6.1		0.50	0.45	0.20	mg/L		11/18/20 18:08	5

Client Sample ID: TB204-64

Lab Sample ID: 410-18275-6

Date Collected: 10/23/20 12:00

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:21	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 00:21	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 00:21	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 00:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 00:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:21	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 00:21	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:21	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 00:21	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		11/04/20 00:21	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 00:21	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/04/20 00:21	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 00:21	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 00:21	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: TB204-64

Lab Sample ID: 410-18275-6

Date Collected: 10/23/20 12:00

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 00:21	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:21	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 00:21	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 00:21	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 00:21	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:21	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 00:21	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 00:21	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:21	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 00:21	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Toluene	0.55	J	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 00:21	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 00:21	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		11/04/20 00:21	1
4-Bromofluorobenzene (Surr)	95		85 - 114		11/04/20 00:21	1
Dibromofluoromethane (Surr)	105		80 - 119		11/04/20 00:21	1
Toluene-d8 (Surr)	97		89 - 112		11/04/20 00:21	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0094	ug/L		11/03/20 23:45	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: TB204-64

Lab Sample ID: 410-18275-6

Date Collected: 10/23/20 12:00

Matrix: Water

Date Received: 10/24/20 09:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	99		46 - 136	10/31/20 00:59	11/03/20 23:45	1
1,1,2,2-Tetrachloroethane (2C)	98		46 - 136	10/31/20 00:59	11/03/20 23:45	1

Client Sample ID: TB204-65

Lab Sample ID: 410-18275-7

Date Collected: 10/23/20 12:00

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:43	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 00:43	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 00:43	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 00:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 00:43	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:43	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 00:43	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:43	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 00:43	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
2-Hexanone	1.0	U Q	10	1.0	0.30	ug/L		11/04/20 00:43	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 00:43	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/04/20 00:43	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 00:43	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 00:43	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 00:43	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:43	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Chloroethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Chloromethane	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 00:43	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: TB204-65

Lab Sample ID: 410-18275-7

Date Collected: 10/23/20 12:00

Matrix: Water

Date Received: 10/24/20 09:43

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 00:43	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 00:43	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 00:43	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 00:43	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 00:43	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 00:43	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 00:43	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 00:43	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Toluene	0.54	J	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 00:43	1
Vinyl chloride	0.50	U Q	1.0	0.50	0.20	ug/L		11/04/20 00:43	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		11/04/20 00:43	1
4-Bromofluorobenzene (Surr)	94		85 - 114		11/04/20 00:43	1
Dibromofluoromethane (Surr)	106		80 - 119		11/04/20 00:43	1
Toluene-d8 (Surr)	96		89 - 112		11/04/20 00:43	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0095	ug/L		11/04/20 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	95		46 - 136	10/31/20 00:59	11/04/20 00:02	1
1,1,2,2-Tetrachloroethane (2C)	95		46 - 136	10/31/20 00:59	11/04/20 00:02	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-18275-1	GW005-204	98	99	98	99
410-18275-2	GW010-204	99	98	99	98
410-18275-2 - DL	GW010-204	98	99	100	99
410-18275-3	GW010-604	97	97	98	98
410-18275-3 - DL	GW010-604	98	98	99	99
410-18275-4 - DL	GW059-204	101	93	96	99
410-18275-4	GW059-204	100	96	94	99
410-18275-5	GW075-204	101	97	100	98
410-18275-6	TB204-64	106	95	105	97
410-18275-7	TB204-65	106	94	106	96
LCS 410-61769/5	Lab Control Sample	103	99	103	98
LCS 410-61769/6	Lab Control Sample	105	95	102	97
LCS 410-61889/6	Lab Control Sample	99	95	95	100
LCS 410-61889/9	Lab Control Sample	100	92	94	99
LCSD 410-61889/10	Lab Control Sample Dup	101	92	95	100
LCSD 410-61889/8	Lab Control Sample Dup	101	95	95	100
MB 410-61769/8	Method Blank	106	95	104	97
MB 410-61889/12	Method Blank	102	92	97	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-18275-1	GW005-204	132 M	99
410-18275-2	GW010-204	174 Q	162 Q
410-18275-3	GW010-604	252 J1 Q	136 J1
410-18275-4	GW059-204	88 J1	221 J1 Q
410-18275-5	GW075-204	115	98
410-18275-6	TB204-64	99	98
410-18275-7	TB204-65	95	95
LCS 410-60634/2-A	Lab Control Sample	88	88
LCSD 410-60634/3-A	Lab Control Sample Dup	92	91
MB 410-60634/1-A	Method Blank	88	89

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-61769/8

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/03/20 22:23	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 22:23	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 22:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 22:23	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 22:23	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 22:23	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/03/20 22:23	1
4-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/03/20 22:23	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/03/20 22:23	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/03/20 22:23	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/03/20 22:23	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/03/20 22:23	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 22:23	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/03/20 22:23	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61769/8

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 22:23	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/03/20 22:23	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/03/20 22:23	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/03/20 22:23	1
p-Isopropyltoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
sec-Butylbenzene	0.50	U M	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/03/20 22:23	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/03/20 22:23	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/03/20 22:23	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/03/20 22:23	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/03/20 22:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		11/03/20 22:23	1
4-Bromofluorobenzene (Surr)	95		85 - 114		11/03/20 22:23	1
Dibromofluoromethane (Surr)	104		80 - 119		11/03/20 22:23	1
Toluene-d8 (Surr)	97		89 - 112		11/03/20 22:23	1

Lab Sample ID: LCS 410-61769/5

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	78 - 124
1,1,1-Trichloroethane	20.0	18.7		ug/L		94	74 - 131
1,1,2,2-Tetrachloroethane	20.0	17.0		ug/L		85	71 - 121
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	80 - 119
1,1-Dichloroethane	20.0	18.0		ug/L		90	77 - 125
1,1-Dichloroethene	20.0	18.2		ug/L		91	71 - 131
1,1-Dichloropropene	20.0	17.9		ug/L		89	79 - 125
1,2,3-Trichlorobenzene	20.0	18.2		ug/L		91	69 - 129
1,2,3-Trichloropropane	20.0	18.5		ug/L		92	73 - 122
1,2,4-Trichlorobenzene	20.0	18.1		ug/L		90	69 - 130
1,2,4-Trimethylbenzene	20.0	17.9		ug/L		89	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.0		ug/L		90	62 - 128
1,2-Dibromoethane	20.0	18.7		ug/L		93	77 - 121
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	80 - 119
1,2-Dichloroethane	20.0	19.0		ug/L		95	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61769/5

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	17.6		ug/L		88	78 - 122
1,3,5-Trimethylbenzene	20.0	18.1		ug/L		90	75 - 124
1,3-Dichlorobenzene	20.0	18.5		ug/L		93	80 - 119
1,3-Dichloropropane	20.0	17.5		ug/L		88	80 - 119
1,4-Dichlorobenzene	20.0	18.6		ug/L		93	79 - 118
2,2-Dichloropropane	20.0	18.8		ug/L		94	60 - 139
2-Butanone	150	133		ug/L		88	56 - 143
2-Chlorotoluene	20.0	18.0		ug/L		90	79 - 122
2-Hexanone	100	85.2		ug/L		85	57 - 139
4-Chlorotoluene	20.0	18.1		ug/L		91	78 - 122
4-Methyl-2-pentanone	100	88.0		ug/L		88	67 - 130
Acetone	150	123		ug/L		82	39 - 160
Acrolein	150	117		ug/L		78	39 - 155
Acrylonitrile	100	86.9		ug/L		87	63 - 135
Benzene	20.0	17.9		ug/L		90	42 - 138
Bromobenzene	20.0	18.6		ug/L		93	80 - 120
Bromochloromethane	20.0	18.0		ug/L		90	78 - 123
Bromodichloromethane	20.0	18.7		ug/L		93	79 - 125
Bromoform	20.0	19.1		ug/L		95	66 - 130
Bromomethane	20.0	13.8		ug/L		69	53 - 141
Carbon disulfide	20.0	17.9		ug/L		89	64 - 133
Carbon tetrachloride	20.0	18.9		ug/L		94	72 - 136
Chlorobenzene	20.0	18.8		ug/L		94	82 - 118
Chloroethane	20.0	13.7		ug/L		68	60 - 138
Chloroform	20.0	18.8		ug/L		94	79 - 124
Chloromethane	20.0	12.3		ug/L		61	50 - 139
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	78 - 123
cis-1,3-Dichloropropene	20.0	17.6		ug/L		88	75 - 124
Dibromochloromethane	20.0	20.4		ug/L		102	74 - 126
Dibromomethane	20.0	19.3		ug/L		96	79 - 123
Dichlorodifluoromethane	20.0	12.0	M	ug/L		60	32 - 152
Ethylbenzene	20.0	18.2		ug/L		91	79 - 121
Hexachlorobutadiene	20.0	18.1		ug/L		91	66 - 134
Isopropylbenzene	20.0	18.8		ug/L		94	72 - 131
m&p-Xylene	40.0	37.5		ug/L		94	80 - 121
Methyl tertiary butyl ether	20.0	17.5		ug/L		87	71 - 124
Methylene Chloride	20.0	17.8		ug/L		89	74 - 124
Naphthalene	20.0	18.3		ug/L		91	61 - 128
n-Butylbenzene	20.0	17.1		ug/L		86	75 - 128
N-Propylbenzene	20.0	18.0		ug/L		90	76 - 126
o-Xylene	20.0	18.8		ug/L		94	78 - 122
p-Isopropyltoluene	20.0	18.3		ug/L		91	77 - 127
sec-Butylbenzene	20.0	18.1		ug/L		90	77 - 126
Styrene	20.0	18.8		ug/L		94	78 - 123
tert-Butylbenzene	20.0	20.4		ug/L		102	78 - 124
Tetrachloroethene	20.0	18.8		ug/L		94	74 - 129
Toluene	20.0	18.2		ug/L		91	80 - 121
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	75 - 124
trans-1,3-Dichloropropene	20.0	17.1		ug/L		86	73 - 127

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61769/5

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	18.4		ug/L		92	79 - 123
Trichlorofluoromethane	20.0	15.6		ug/L		78	65 - 141
Vinyl chloride	20.0	13.0		ug/L		65	58 - 137
Xylenes, Total	60.0	56.3		ug/L		94	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	103		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: LCS 410-61769/6

Matrix: Water

Analysis Batch: 61769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	100		ug/L		100	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	102		80 - 119
Toluene-d8 (Surr)	97		89 - 112

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/04/20 11:35	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 11:35	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/04/20 11:35	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/04/20 11:35	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/04/20 11:35	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/04/20 11:35	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/04/20 11:35	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/04/20 11:35	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 11:35	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/04/20 11:35	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/04/20 11:35	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/04/20 11:35	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/04/20 11:35	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/04/20 11:35	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/04/20 11:35	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/04/20 11:35	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/04/20 11:35	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-61889/12

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/04/20 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/04/20 11:35	1
4-Bromofluorobenzene (Surr)	92		85 - 114		11/04/20 11:35	1
Dibromofluoromethane (Surr)	97		80 - 119		11/04/20 11:35	1
Toluene-d8 (Surr)	99		89 - 112		11/04/20 11:35	1

Lab Sample ID: LCS 410-61889/6

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.4		ug/L		97	78 - 124
1,1,1-Trichloroethane	20.0	18.4		ug/L		92	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	21.1		ug/L		106	80 - 119
1,1-Dichloroethane	20.0	19.0		ug/L		95	77 - 125
1,1-Dichloroethene	20.0	20.3		ug/L		101	71 - 131
1,1-Dichloropropene	20.0	19.5		ug/L		97	79 - 125
1,2,3-Trichlorobenzene	20.0	20.3		ug/L		102	69 - 129
1,2,3-Trichloropropane	20.0	19.9		ug/L		99	73 - 122
1,2,4-Trichlorobenzene	20.0	20.1		ug/L		100	69 - 130
1,2,4-Trimethylbenzene	20.0	19.7		ug/L		98	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	62 - 128
1,2-Dibromoethane	20.0	19.9		ug/L		100	77 - 121
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	17.9		ug/L		90	73 - 128
1,2-Dichloropropane	20.0	20.1		ug/L		100	78 - 122
1,3,5-Trimethylbenzene	20.0	19.8		ug/L		99	75 - 124
1,3-Dichlorobenzene	20.0	20.5		ug/L		103	80 - 119
1,3-Dichloropropane	20.0	19.0		ug/L		95	80 - 119
1,4-Dichlorobenzene	20.0	20.7		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	18.5	M	ug/L		93	60 - 139
2-Butanone	150	147		ug/L		98	56 - 143
2-Chlorotoluene	20.0	21.0		ug/L		105	79 - 122
2-Hexanone	100	92.8		ug/L		93	57 - 139
4-Chlorotoluene	20.0	20.8		ug/L		104	78 - 122
4-Methyl-2-pentanone	100	92.8		ug/L		93	67 - 130
Acetone	150	189		ug/L		126	39 - 160
Acrolein	150	139		ug/L		93	39 - 155
Acrylonitrile	100	99.0		ug/L		99	63 - 135
Benzene	20.0	19.9		ug/L		99	42 - 138
Bromobenzene	20.0	21.1		ug/L		106	80 - 120
Bromochloromethane	20.0	19.0		ug/L		95	78 - 123
Bromodichloromethane	20.0	18.6		ug/L		93	79 - 125
Bromoform	20.0	18.1		ug/L		91	66 - 130
Bromomethane	20.0	18.9		ug/L		95	53 - 141

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61889/6

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	19.1		ug/L		95	64 - 133
Carbon tetrachloride	20.0	18.1		ug/L		91	72 - 136
Chlorobenzene	20.0	20.7		ug/L		103	82 - 118
Chloroethane	20.0	17.1		ug/L		86	60 - 138
Chloroform	20.0	19.2		ug/L		96	79 - 124
Chloromethane	20.0	15.9		ug/L		79	50 - 139
cis-1,2-Dichloroethene	20.0	20.8		ug/L		104	78 - 123
cis-1,3-Dichloropropene	20.0	18.8		ug/L		94	75 - 124
Dibromochloromethane	20.0	19.3		ug/L		97	74 - 126
Dibromomethane	20.0	19.5		ug/L		98	79 - 123
Dichlorodifluoromethane	20.0	15.0		ug/L		75	32 - 152
Ethylbenzene	20.0	20.0		ug/L		100	79 - 121
Hexachlorobutadiene	20.0	20.4		ug/L		102	66 - 134
Isopropylbenzene	20.0	20.1		ug/L		101	72 - 131
m&p-Xylene	40.0	41.4		ug/L		103	80 - 121
Methyl tertiary butyl ether	20.0	17.8		ug/L		89	71 - 124
Methylene Chloride	20.0	20.1		ug/L		100	74 - 124
Naphthalene	20.0	19.9		ug/L		99	61 - 128
n-Butylbenzene	20.0	19.3		ug/L		96	75 - 128
N-Propylbenzene	20.0	20.9		ug/L		104	76 - 126
o-Xylene	20.0	20.3		ug/L		102	78 - 122
p-Isopropyltoluene	20.0	19.9		ug/L		100	77 - 127
sec-Butylbenzene	20.0	20.2		ug/L		101	77 - 126
Styrene	20.0	20.5		ug/L		103	78 - 123
tert-Butylbenzene	20.0	19.3		ug/L		96	78 - 124
Tetrachloroethene	20.0	22.0		ug/L		110	74 - 129
Toluene	20.0	20.3		ug/L		102	80 - 121
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	75 - 124
trans-1,3-Dichloropropene	20.0	18.0		ug/L		90	73 - 127
Trichloroethene	20.0	19.9		ug/L		99	79 - 123
Trichlorofluoromethane	20.0	18.5		ug/L		92	65 - 141
Vinyl chloride	20.0	16.8		ug/L		84	58 - 137
Xylenes, Total	60.0	61.7		ug/L		103	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-61889/9

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	92.1		ug/L		92	54 - 146

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-61889/9

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	92		85 - 114
Dibromofluoromethane (Surr)	94		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCSD 410-61889/10

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	91.3		ug/L		91	54 - 146	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	92		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	78 - 124	2	20
1,1,1-Trichloroethane	20.0	18.7		ug/L		93	74 - 131	1	20
1,1,2,2-Tetrachloroethane	20.0	20.2		ug/L		101	71 - 121	1	20
1,1,2-Trichloroethane	20.0	21.3		ug/L		106	80 - 119	1	20
1,1-Dichloroethane	20.0	18.9		ug/L		95	77 - 125	0	20
1,1-Dichloroethene	20.0	20.7		ug/L		103	71 - 131	2	20
1,1-Dichloropropene	20.0	19.5		ug/L		97	79 - 125	0	20
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	69 - 129	0	20
1,2,3-Trichloropropane	20.0	19.8		ug/L		99	73 - 122	0	20
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	69 - 130	1	20
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	20.0	18.3		ug/L		91	62 - 128	1	20
1,2-Dibromoethane	20.0	19.8		ug/L		99	77 - 121	0	20
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 119	0	20
1,2-Dichloroethane	20.0	17.9		ug/L		90	73 - 128	0	20
1,2-Dichloropropane	20.0	19.8		ug/L		99	78 - 122	1	20
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		99	75 - 124	0	20
1,3-Dichlorobenzene	20.0	20.5		ug/L		102	80 - 119	0	20
1,3-Dichloropropane	20.0	19.3		ug/L		96	80 - 119	1	20
1,4-Dichlorobenzene	20.0	20.7		ug/L		103	79 - 118	0	20
2,2-Dichloropropane	20.0	18.1		ug/L		91	60 - 139	2	20
2-Butanone	150	147		ug/L		98	56 - 143	0	20
2-Chlorotoluene	20.0	20.7		ug/L		104	79 - 122	1	20
2-Hexanone	100	92.3		ug/L		92	57 - 139	0	20
4-Chlorotoluene	20.0	20.8		ug/L		104	78 - 122	0	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone	100	93.3		ug/L		93	67 - 130	1	20
Acetone	150	187		ug/L		125	39 - 160	1	20
Acrolein	150	139		ug/L		93	39 - 155	0	20
Acrylonitrile	100	98.8		ug/L		99	63 - 135	0	20
Benzene	20.0	19.9		ug/L		99	42 - 138	0	20
Bromobenzene	20.0	21.3		ug/L		106	80 - 120	1	20
Bromochloromethane	20.0	19.1		ug/L		96	78 - 123	1	20
Bromodichloromethane	20.0	18.9		ug/L		95	79 - 125	1	20
Bromoform	20.0	18.6		ug/L		93	66 - 130	3	20
Bromomethane	20.0	19.4		ug/L		97	53 - 141	3	20
Carbon disulfide	20.0	19.1		ug/L		95	64 - 133	0	20
Carbon tetrachloride	20.0	18.5		ug/L		93	72 - 136	2	20
Chlorobenzene	20.0	20.8		ug/L		104	82 - 118	1	20
Chloroethane	20.0	17.5		ug/L		88	60 - 138	2	20
Chloroform	20.0	19.2		ug/L		96	79 - 124	0	20
Chloromethane	20.0	16.2		ug/L		81	50 - 139	2	20
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	78 - 123	1	20
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	75 - 124	1	20
Dibromochloromethane	20.0	19.6		ug/L		98	74 - 126	1	20
Dibromomethane	20.0	19.7		ug/L		98	79 - 123	1	20
Dichlorodifluoromethane	20.0	15.8		ug/L		79	32 - 152	5	20
Ethylbenzene	20.0	20.2		ug/L		101	79 - 121	1	20
Hexachlorobutadiene	20.0	20.6		ug/L		103	66 - 134	1	20
Isopropylbenzene	20.0	20.2		ug/L		101	72 - 131	0	20
m&p-Xylene	40.0	41.8		ug/L		104	80 - 121	1	20
Methyl tertiary butyl ether	20.0	17.9		ug/L		89	71 - 124	0	20
Methylene Chloride	20.0	20.2		ug/L		101	74 - 124	1	20
Naphthalene	20.0	19.8		ug/L		99	61 - 128	0	20
n-Butylbenzene	20.0	19.3		ug/L		96	75 - 128	0	20
N-Propylbenzene	20.0	20.7		ug/L		104	76 - 126	1	20
o-Xylene	20.0	20.5		ug/L		102	78 - 122	1	20
p-Isopropyltoluene	20.0	20.1		ug/L		101	77 - 127	1	20
sec-Butylbenzene	20.0	20.2		ug/L		101	77 - 126	0	20
Styrene	20.0	20.6		ug/L		103	78 - 123	0	20
tert-Butylbenzene	20.0	19.5		ug/L		97	78 - 124	1	20
Tetrachloroethene	20.0	22.1		ug/L		111	74 - 129	0	20
Toluene	20.0	20.7		ug/L		104	80 - 121	2	20
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124	2	20
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	73 - 127	1	20
Trichloroethene	20.0	20.1		ug/L		100	79 - 123	1	20
Trichlorofluoromethane	20.0	18.8		ug/L		94	65 - 141	2	20
Vinyl chloride	20.0	17.9		ug/L		89	58 - 137	6	20
Xylenes, Total	60.0	62.3		ug/L		104	79 - 121	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-61889/8

Matrix: Water

Analysis Batch: 61889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	100		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-60634/1-A

Matrix: Water

Analysis Batch: 61761

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60634

	MB	MB								
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac	
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		11/03/20 20:42	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1,1,2,2-Tetrachloroethane (1C)	88		46 - 136	10/31/20 00:59	11/03/20 20:42	1				
1,1,2,2-Tetrachloroethane (2C)	89		46 - 136	10/31/20 00:59	11/03/20 20:42	1				

Lab Sample ID: LCS 410-60634/2-A

Matrix: Water

Analysis Batch: 61761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60634

	Spike	LCS	LCS					%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Ethylene Dibromide (1C)	0.128	0.106		ug/L		83	60 - 140			

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	88		46 - 136
1,1,2,2-Tetrachloroethane (2C)	88		46 - 136

Lab Sample ID: LCSD 410-60634/3-A

Matrix: Water

Analysis Batch: 61761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60634

	Spike	LCSD	LCSD					%Rec.	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Ethylene Dibromide (1C)	0.128	0.112		ug/L		87	60 - 140	5	20	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-66079/4

Matrix: Water

Analysis Batch: 66079

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac	
Bromide	0.40	U	0.50	0.40	0.25	mg/L		11/14/20 11:34	1	
Chloride	0.30	U	0.40	0.30	0.20	mg/L		11/14/20 11:34	1	
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/14/20 11:34	1	

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 410-66079/3

Matrix: Water

Analysis Batch: 66079

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.08		mg/L		94	90 - 110
Chloride	3.00	2.79		mg/L		93	90 - 110
Sulfate	7.50	7.12		mg/L		95	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-59680/1-A

Matrix: Water

Analysis Batch: 60709

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 59680

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.0557	J	0.21	0.10	0.041	mg/L		10/31/20 11:13	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/31/20 11:13	1

Lab Sample ID: LCS 410-59680/2-A

Matrix: Water

Analysis Batch: 60709

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.456		mg/L		113	87 - 115

Lab Sample ID: LCS 410-59680/2-A

Matrix: Water

Analysis Batch: 60994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 59680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.0200	0.0220		mg/L		110	90 - 114

Lab Sample ID: MB 410-58980/1-A

Matrix: Water

Analysis Batch: 60031

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58980

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/29/20 12:13	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/29/20 12:13	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/29/20 12:13	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/29/20 12:13	1

Lab Sample ID: LCS 410-58980/2-A

Matrix: Water

Analysis Batch: 60031

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.433		mg/L		108	87 - 113
Magnesium	0.200	0.207		mg/L		103	85 - 113
Potassium	5.60	5.57		mg/L		99	86 - 114
Sodium	2.00	2.10		mg/L		105	87 - 115

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-58989/1-A

Matrix: Water

Analysis Batch: 61492

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 58989

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U Q	0.0020	0.0016	0.00068	mg/L		11/02/20 21:58	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		11/02/20 21:58	1

Lab Sample ID: LCS 410-58989/2-A

Matrix: Water

Analysis Batch: 61492

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.0300	0.0314		mg/L		105	88 - 115

Lab Sample ID: LCS 410-58989/2-A

Matrix: Water

Analysis Batch: 61899

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 58989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0625		mg/L		104	84 - 116

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-59097/56

Matrix: Water

Analysis Batch: 59097

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 02:19	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 02:19	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		10/27/20 02:19	1

Lab Sample ID: LCS 410-59097/57

Matrix: Water

Analysis Batch: 59097

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	182		mg/L		96	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-68067/20

Matrix: Water

Analysis Batch: 68067

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:05	1

Lab Sample ID: MB 410-68067/91

Matrix: Water

Analysis Batch: 68067

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 17:28	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: LCS 410-68067/21

Matrix: Water

Analysis Batch: 68067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.57		mg/L		103	90 - 110

Lab Sample ID: LCS 410-68067/92

Matrix: Water

Analysis Batch: 68067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.63		mg/L		105	90 - 110

Lab Sample ID: 410-18275-1 MS

Matrix: Water

Analysis Batch: 68067

Client Sample ID: GW005-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.059	J1	1.00	1.17	J1	mg/L		111	90 - 110

Lab Sample ID: 410-18275-2 MS

Matrix: Water

Analysis Batch: 68067

Client Sample ID: GW010-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.090	U	1.00	1.06		mg/L		106	90 - 110

Lab Sample ID: 410-18275-1 DU

Matrix: Water

Analysis Batch: 68067

Client Sample ID: GW005-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.059	J1	0.0500	J	mg/L		17	10

Lab Sample ID: 410-18275-2 DU

Matrix: Water

Analysis Batch: 68067

Client Sample ID: GW010-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.090	U	0.090	U	mg/L		NC	10

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

GC/MS VOA

Analysis Batch: 61769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	8260C DOD	
410-18275-2	GW010-204	Total/NA	Water	8260C DOD	
410-18275-2 - DL	GW010-204	Total/NA	Water	8260C DOD	
410-18275-3	GW010-604	Total/NA	Water	8260C DOD	
410-18275-3 - DL	GW010-604	Total/NA	Water	8260C DOD	
410-18275-5	GW075-204	Total/NA	Water	8260C DOD	
410-18275-6	TB204-64	Total/NA	Water	8260C DOD	
410-18275-7	TB204-65	Total/NA	Water	8260C DOD	
MB 410-61769/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-61769/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-61769/6	Lab Control Sample	Total/NA	Water	8260C DOD	

Analysis Batch: 61889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-4	GW059-204	Total/NA	Water	8260C DOD	
410-18275-4 - DL	GW059-204	Total/NA	Water	8260C DOD	
MB 410-61889/12	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-61889/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-61889/9	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-61889/10	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-61889/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 60634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	8011	
410-18275-2	GW010-204	Total/NA	Water	8011	
410-18275-3	GW010-604	Total/NA	Water	8011	
410-18275-4	GW059-204	Total/NA	Water	8011	
410-18275-5	GW075-204	Total/NA	Water	8011	
410-18275-6	TB204-64	Total/NA	Water	8011	
410-18275-7	TB204-65	Total/NA	Water	8011	
MB 410-60634/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-60634/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-60634/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 61761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	8011	60634
410-18275-2	GW010-204	Total/NA	Water	8011	60634
410-18275-3	GW010-604	Total/NA	Water	8011	60634
410-18275-4	GW059-204	Total/NA	Water	8011	60634
410-18275-5	GW075-204	Total/NA	Water	8011	60634
410-18275-6	TB204-64	Total/NA	Water	8011	60634
410-18275-7	TB204-65	Total/NA	Water	8011	60634
MB 410-60634/1-A	Method Blank	Total/NA	Water	8011	60634
LCS 410-60634/2-A	Lab Control Sample	Total/NA	Water	8011	60634
LCSD 410-60634/3-A	Lab Control Sample Dup	Total/NA	Water	8011	60634

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

HPLC/IC

Analysis Batch: 66079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	EPA 300.0 R2.1	
410-18275-1	GW005-204	Total/NA	Water	EPA 300.0 R2.1	
410-18275-2	GW010-204	Total/NA	Water	EPA 300.0 R2.1	
410-18275-3	GW010-604	Total/NA	Water	EPA 300.0 R2.1	
410-18275-4	GW059-204	Total/NA	Water	EPA 300.0 R2.1	
410-18275-4	GW059-204	Total/NA	Water	EPA 300.0 R2.1	
410-18275-5	GW075-204	Total/NA	Water	EPA 300.0 R2.1	
410-18275-5	GW075-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-66079/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-66079/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 58980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total Recoverable	Water	3005A	
410-18275-2	GW010-204	Total Recoverable	Water	3005A	
410-18275-3	GW010-604	Total Recoverable	Water	3005A	
410-18275-4	GW059-204	Total Recoverable	Water	3005A	
410-18275-5	GW075-204	Total Recoverable	Water	3005A	
MB 410-58980/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-58980/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 58989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	3005A	
410-18275-2	GW010-204	Total/NA	Water	3005A	
410-18275-3	GW010-604	Total/NA	Water	3005A	
410-18275-4	GW059-204	Total/NA	Water	3005A	
410-18275-5	GW075-204	Total/NA	Water	3005A	
MB 410-58989/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-58989/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 59680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Dissolved	Water	Non-Digest Prep	
410-18275-2	GW010-204	Dissolved	Water	Non-Digest Prep	
410-18275-3	GW010-604	Dissolved	Water	Non-Digest Prep	
410-18275-4	GW059-204	Dissolved	Water	Non-Digest Prep	
410-18275-5	GW075-204	Dissolved	Water	Non-Digest Prep	
MB 410-59680/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-59680/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 60031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total Recoverable	Water	6010C	58980
410-18275-2	GW010-204	Total Recoverable	Water	6010C	58980
410-18275-3	GW010-604	Total Recoverable	Water	6010C	58980
410-18275-4	GW059-204	Total Recoverable	Water	6010C	58980
410-18275-5	GW075-204	Total Recoverable	Water	6010C	58980
MB 410-58980/1-A	Method Blank	Total Recoverable	Water	6010C	58980

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Metals (Continued)

Analysis Batch: 60031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-58980/2-A	Lab Control Sample	Total Recoverable	Water	6010C	58980

Analysis Batch: 60709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Dissolved	Water	6010C	59680
410-18275-2	GW010-204	Dissolved	Water	6010C	59680
410-18275-3	GW010-604	Dissolved	Water	6010C	59680
410-18275-4	GW059-204	Dissolved	Water	6010C	59680
410-18275-5	GW075-204	Dissolved	Water	6010C	59680
MB 410-59680/1-A	Method Blank	Total/NA	Water	6010C	59680
LCS 410-59680/2-A	Lab Control Sample	Total/NA	Water	6010C	59680

Analysis Batch: 60994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Dissolved	Water	6010C	59680
410-18275-2	GW010-204	Dissolved	Water	6010C	59680
410-18275-3	GW010-604	Dissolved	Water	6010C	59680
410-18275-4	GW059-204	Dissolved	Water	6010C	59680
410-18275-5	GW075-204	Dissolved	Water	6010C	59680
LCS 410-59680/2-A	Lab Control Sample	Total/NA	Water	6010C	59680

Analysis Batch: 61492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	6020A	58989
410-18275-2	GW010-204	Total/NA	Water	6020A	58989
410-18275-3	GW010-604	Total/NA	Water	6020A	58989
410-18275-4	GW059-204	Total/NA	Water	6020A	58989
410-18275-5	GW075-204	Total/NA	Water	6020A	58989
MB 410-58989/1-A	Method Blank	Total Recoverable	Water	6020A	58989
LCS 410-58989/2-A	Lab Control Sample	Total Recoverable	Water	6020A	58989

Analysis Batch: 61899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	6020A	58989
410-18275-4	GW059-204	Total/NA	Water	6020A	58989
LCS 410-58989/2-A	Lab Control Sample	Total Recoverable	Water	6020A	58989

General Chemistry

Analysis Batch: 59097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	2320B-2011	
410-18275-2	GW010-204	Total/NA	Water	2320B-2011	
410-18275-3	GW010-604	Total/NA	Water	2320B-2011	
410-18275-4	GW059-204	Total/NA	Water	2320B-2011	
410-18275-5	GW075-204	Total/NA	Water	2320B-2011	
MB 410-59097/56	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-59097/57	Lab Control Sample	Total/NA	Water	2320B-2011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

General Chemistry

Analysis Batch: 68067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18275-1	GW005-204	Total/NA	Water	353.2	
410-18275-2	GW010-204	Total/NA	Water	353.2	
410-18275-3	GW010-604	Total/NA	Water	353.2	
410-18275-4	GW059-204	Total/NA	Water	353.2	
410-18275-5	GW075-204	Total/NA	Water	353.2	
MB 410-68067/20	Method Blank	Total/NA	Water	353.2	
MB 410-68067/91	Method Blank	Total/NA	Water	353.2	
LCS 410-68067/21	Lab Control Sample	Total/NA	Water	353.2	
LCS 410-68067/92	Lab Control Sample	Total/NA	Water	353.2	
410-18275-1 MS	GW005-204	Total/NA	Water	353.2	
410-18275-2 MS	GW010-204	Total/NA	Water	353.2	
410-18275-1 DU	GW005-204	Total/NA	Water	353.2	
410-18275-2 DU	GW010-204	Total/NA	Water	353.2	

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Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW005-204

Lab Sample ID: 410-18275-1

Date Collected: 10/23/20 13:05

Matrix: Water

Date Received: 10/24/20 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		5	61769	11/04/20 05:29	TQ4J	ELLE
Total/NA	Prep	8011			60634	10/31/20 00:59	UKQ8	ELLE
Total/NA	Analysis	8011		5	61761	11/03/20 21:32	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	66079	11/14/20 16:55	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		100	66079	11/14/20 17:12	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60709	10/31/20 11:58	SB	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60994	11/02/20 09:05	SB	ELLE
Total Recoverable	Prep	3005A			58980	10/27/20 10:28	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	60031	10/29/20 13:10	SB	ELLE
Total/NA	Prep	3005A			58989	10/27/20 10:36	UJLA	ELLE
Total/NA	Analysis	6020A		1	61492	11/02/20 22:26	V5SW	ELLE
Total/NA	Prep	3005A			58989	10/27/20 10:36	UJLA	ELLE
Total/NA	Analysis	6020A		1	61899	11/03/20 17:25	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 03:57	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 18:04	KGQ6	ELLE

Client Sample ID: GW010-204

Lab Sample ID: 410-18275-2

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		10	61769	11/04/20 06:13	TQ4J	ELLE
Total/NA	Analysis	8260C DOD	DL	100	61769	11/04/20 06:35	TQ4J	ELLE
Total/NA	Prep	8011			60634	10/31/20 00:59	UKQ8	ELLE
Total/NA	Analysis	8011		50	61761	11/03/20 21:48	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	66079	11/14/20 17:29	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60709	10/31/20 12:01	SB	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60994	11/02/20 09:09	SB	ELLE
Total Recoverable	Prep	3005A			58980	10/27/20 10:28	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	60031	10/29/20 13:13	SB	ELLE
Total/NA	Prep	3005A			58989	10/27/20 10:36	UJLA	ELLE
Total/NA	Analysis	6020A		1	61492	11/02/20 22:28	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 03:50	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:09	KGQ6	ELLE

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Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW010-604

Lab Sample ID: 410-18275-3

Date Collected: 10/22/20 10:46

Matrix: Water

Date Received: 10/24/20 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		5	61769	11/04/20 06:56	TQ4J	ELLE
Total/NA	Analysis	8260C DOD	DL	50	61769	11/04/20 07:18	TQ4J	ELLE
Total/NA	Prep	8011			60634	10/31/20 00:59	UKQ8	ELLE
Total/NA	Analysis	8011		50	61761	11/03/20 22:05	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	66079	11/14/20 18:03	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60709	10/31/20 12:04	SB	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60994	11/02/20 09:12	SB	ELLE
Total Recoverable	Prep	3005A			58980	10/27/20 10:28	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	60031	10/29/20 13:16	SB	ELLE
Total/NA	Prep	3005A			58989	10/27/20 10:36	UJLA	ELLE
Total/NA	Analysis	6020A		1	61492	11/02/20 22:30	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 04:03	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:13	KGQ6	ELLE

Client Sample ID: GW059-204

Lab Sample ID: 410-18275-4

Date Collected: 10/23/20 16:36

Matrix: Water

Date Received: 10/24/20 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		20	61889	11/04/20 18:57	H9JD	ELLE
Total/NA	Analysis	8260C DOD	DL	200	61889	11/04/20 19:17	H9JD	ELLE
Total/NA	Prep	8011			60634	10/31/20 00:59	UKQ8	ELLE
Total/NA	Analysis	8011		50	61761	11/03/20 22:22	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	66079	11/14/20 19:11	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		20	66079	11/14/20 19:28	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60709	10/31/20 12:07	SB	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60994	11/02/20 09:15	SB	ELLE
Total Recoverable	Prep	3005A			58980	10/27/20 10:28	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	60031	10/29/20 12:39	SB	ELLE
Total/NA	Prep	3005A			58989	10/27/20 10:36	UJLA	ELLE
Total/NA	Analysis	6020A		1	61492	11/02/20 22:32	V5SW	ELLE
Total/NA	Prep	3005A			58989	10/27/20 10:36	UJLA	ELLE
Total/NA	Analysis	6020A		1	61899	11/03/20 17:26	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 03:43	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 18:07	KGQ6	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Client Sample ID: GW075-204

Lab Sample ID: 410-18275-5

Date Collected: 10/23/20 09:11

Matrix: Water

Date Received: 10/24/20 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61769	11/04/20 03:39	TQ4J	ELLE
Total/NA	Prep	8011			60634	10/31/20 00:59	UKQ8	ELLE
Total/NA	Analysis	8011		1	61761	11/03/20 22:39	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	66079	11/14/20 20:19	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		100	66079	11/14/20 20:36	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60709	10/31/20 12:11	SB	ELLE
Dissolved	Prep	Non-Digest Prep			59680	10/28/20 19:06	UJLA	ELLE
Dissolved	Analysis	6010C		1	60994	11/02/20 09:19	SB	ELLE
Total Recoverable	Prep	3005A			58980	10/27/20 10:28	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	60031	10/29/20 12:42	SB	ELLE
Total/NA	Prep	3005A			58989	10/27/20 10:36	UJLA	ELLE
Total/NA	Analysis	6020A		1	61492	11/02/20 22:34	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	59097	10/27/20 04:09	JB	ELLE
Total/NA	Analysis	353.2		5	68067	11/18/20 18:08	KGQ6	ELLE

Client Sample ID: TB204-64

Lab Sample ID: 410-18275-6

Date Collected: 10/23/20 12:00

Matrix: Water

Date Received: 10/24/20 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61769	11/04/20 00:21	TQ4J	ELLE
Total/NA	Prep	8011			60634	10/31/20 00:59	UKQ8	ELLE
Total/NA	Analysis	8011		1	61761	11/03/20 23:45	AC3T	ELLE

Client Sample ID: TB204-65

Lab Sample ID: 410-18275-7

Date Collected: 10/23/20 12:00

Matrix: Water

Date Received: 10/24/20 09:43

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	61769	11/04/20 00:43	TQ4J	ELLE
Total/NA	Prep	8011			60634	10/31/20 00:59	UKQ8	ELLE
Total/NA	Analysis	8011		1	61761	11/04/20 00:02	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18275-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-18275-1	GW005-204	Water	10/23/20 13:05	10/24/20 09:43	
410-18275-2	GW010-204	Water	10/22/20 10:46	10/24/20 09:43	
410-18275-3	GW010-604	Water	10/22/20 10:46	10/24/20 09:43	
410-18275-4	GW059-204	Water	10/23/20 16:36	10/24/20 09:43	
410-18275-5	GW075-204	Water	10/23/20 09:11	10/24/20 09:43	
410-18275-6	TB204-64	Water	10/23/20 12:00	10/24/20 09:43	
410-18275-7	TB204-65	Water	10/23/20 12:00	10/24/20 09:43	

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410-18275 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-005-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS
1	GW005-204	10-23-2020	1305	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-902															
SAMPLER(S): A. Rosebraugh, D. Schmeelk								COURIER AND SHIPPING NUMBER: FedEx 7718 8579 8858							
RELINQUISHED BY:								RECEIVED BY:							
DATE								DATE							
TIME								TIME							
Printed Name and Signature: Amy Rosebraugh, 10/23/2020 1900								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-010-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (#260C)	BTEX (#260C)	BTEXN (#260C)	EDB (#011)	Total (As, Pb, Cd, K, Hg, Mg) (#020A/6010C)	Dissolved Fe, Mn (#020A/6010C)	Chloride, bromide, sulfate (#010C)	Nitrate-Nitrite (#0030)	Alkalinity (Total, Carbonate, and Bicarbonate) (#3532)	Carbon Dioxide (#M2320B)	(#SK-175) Methane	COMMENTS
1	GW010-204	10-22-2020	1046	10	3	—	—	2	1	1*	1	1	1	—	—	
2	GW010-604	10-22-2020	1046	10	3	—	—	2	1	1*	1	1	1	—	—	
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-902 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk Printed Name and Signature: D. Schmeelk DATE: 10-23-2020 TIME: 1900 COURIER AND SHIPPING NUMBER: FedEx 7718 8579 8847 RECEIVED BY: Enrique Sanchez DATE: 10-28-2020 TIME: 0917																

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1025

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-075-204

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA

FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE:
ST106/SS111

Lab PO Number: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Cd, Cr, Ni, Mn) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	
1	GW075-204	09/11-10-23	0911	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
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6																

COMMENTS: *Dissolved Fe, Mn aliquot was field filtered

SAMPLER(S):
A. Rosebrough, D. Schmeitz

COURIER AND SHIPPING NUMBER:
FedEx

RELINQUISHED BY:
Amy Rosebrough

DATE
10/23/2020

TIME
1900

RECEIVED BY:
Enrique Sanchez

DATE
10/24/2020

TIME
0141

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11/30/2020

March 2021

Kirtland AFB BFF
Periodic Monitoring Report – October-December 2020
SWMUs ST-106/SS-111

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225 Schling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204- 64

YEAR: 2020
QUARTER: 4

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: amsmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCS (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total As, Pb, Cu, K, Na, Mg (8020A/8010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)		
1	TB204- 64	10-23-2020	1200	4	2	—	2								
2															
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5															

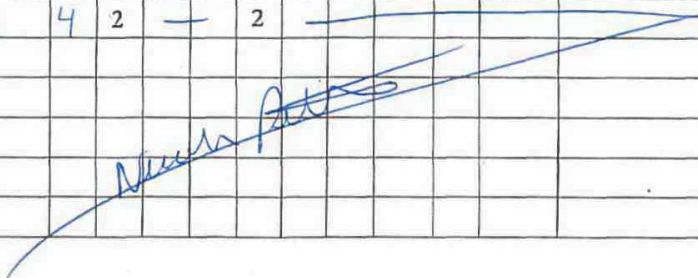
Associated with: GW010-204
GW010-604
GW075-204

SAMPLER(S): Nicole Peterson

COURIER AND SHIPPING NUMBER: FedEx 7718 8579 8847

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: Nicole Peterson	10-23-2020	1900	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: Enrique Sanchez	10/24/2020	9:11

rk

EA 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1425		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-65									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility	PROJECT NUMBER: 6360401	LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@east.com EA Amanda Smith: amsmith@east.com EA		YEAR: 2020									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA		QUARTER: 4									
		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258													
ANALYSIS REQUIRED (Specify number of bottles)				COMMENTS											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(250C) VOCs	(250C) BTEX	(250C) BTEXN	(250C) ED8	(250C) Total As, Pb, Cd, K, Na, Mg	(250C) Dissolved Fe, Mn	(250C) Chloride, bromide, sulfate	(250C) Nitrate-Nitrite	(250C) Alkalinity (Total Carbonate and Bicarbonate)		
1	TB204-65	10-23-2020	1200	4	2	—	2	—	—	—	—	—	—		
2															
3															
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5															
Associated with: GW005-204 GW059-204															
SAMPLER(S): Nicole Peterson				COURIER AND SHIPPING NUMBER: FedEx 7718 8579 8858											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature:								Printed Name and Signature:							
Nicole Peterson Nicole Peterson				10-23-2020		1900									
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
								Nicole Smith				11/24/20		0943	

PR

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-18275-1

Login Number: 18275**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Rivera-Santa, Julissa**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-18906-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/24/2020 11:36:53 AM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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Darlene Bandy
Project Manager I
11/24/2020 11:36:53 AM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Job ID: 410-18906-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-18906-1

Receipt

The samples were received on 10/30/2020 10:42 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 0.8° C.

GC/MS VOA

Method 8260C DOD: The response for Acetone in the initial calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-64224. Due to the marginal nature of the outlier(s), the data are reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid on analytical batch 410-64224: GW006-204 (410-18906-1), GW018-204 (410-18906-4), GW020-204 (410-18906-5), ER204-03 (410-18906-6), TB204-66 (410-18906-7) and TB204-67 (410-18906-8). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-64962 recovered above the upper control limit for Dichlorodifluoromethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The response for Acetone in the initial calibration verification associated with analytical batch 410-64962 marginally exceeds the DoD acceptance criteria. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: GW014-604 (410-18906-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW006-204

Lab Sample ID: 410-18906-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethane	2.4		1.0	0.50	0.30	ug/L	1			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	0.41	J M	5.0	1.0	0.30	ug/L	1			8260C DOD	Total/NA
2-Butanone	1.4	J	10	1.0	0.30	ug/L	1			8260C DOD	Total/NA
Acetone	11	J Q	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Benzene	6.5		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Ethylbenzene	4.0		1.0	0.80	0.40	ug/L	1			8260C DOD	Total/NA
Isopropylbenzene	13		5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
m&p-Xylene	6.7		5.0	2.0	1.0	ug/L	1			8260C DOD	Total/NA
Methyl tertiary butyl ether	0.90	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
n-Butylbenzene	0.37	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
N-Propylbenzene	3.0	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
o-Xylene	4.2		1.0	0.80	0.40	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	1.2	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	1.0	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Toluene	4.3		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Xylenes, Total	11		6.0	2.0	1.4	ug/L	1			8260C DOD	Total/NA
Chloride	10	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	3.0	J D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	68		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	22		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	73		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Iron	0.20	J	0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	1.2		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.0017	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00038	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	260		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	260		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: GW014-204

Lab Sample ID: 410-18906-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	130	D	50	20	10	ug/L	10			8260C DOD	Total/NA
1,2-Dichloroethane	6.9	J D M	10	5.0	3.0	ug/L	10			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	43	J D	50	10	3.0	ug/L	10			8260C DOD	Total/NA
2-Butanone	9.5	J D	100	10	3.0	ug/L	10			8260C DOD	Total/NA
2-Hexanone	180	D	100	10	3.0	ug/L	10			8260C DOD	Total/NA
4-Methyl-2-pentanone	230	D	100	10	5.0	ug/L	10			8260C DOD	Total/NA
Acetone	40	J D Q	200	20	7.0	ug/L	10			8260C DOD	Total/NA
Ethylbenzene	800	D	10	8.0	4.0	ug/L	10			8260C DOD	Total/NA
Isopropylbenzene	320	D	50	5.0	2.0	ug/L	10			8260C DOD	Total/NA
m&p-Xylene	1300	D	50	20	10	ug/L	10			8260C DOD	Total/NA
Naphthalene	83	D	50	20	10	ug/L	10			8260C DOD	Total/NA
n-Butylbenzene	2.1	J D	50	5.0	2.0	ug/L	10			8260C DOD	Total/NA
N-Propylbenzene	33	J D	50	5.0	2.0	ug/L	10			8260C DOD	Total/NA
o-Xylene	570	D	10	8.0	4.0	ug/L	10			8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW014-204 (Continued)

Lab Sample ID: 410-18906-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	47	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
sec-Butylbenzene	4.8	J D	50	5.0	2.0	ug/L	10		8260C DOD	Total/NA
Xylenes, Total	1900		60	20	14	ug/L	10		8260C DOD	Total/NA
Benzene - DL	6100	D	100	50	20	ug/L	100		8260C DOD	Total/NA
Toluene - DL	6300	D	100	50	20	ug/L	100		8260C DOD	Total/NA
Ethylene Dibromide (1C)	2.6	D M	0.29	0.19	0.096	ug/L	10		8011	Total/NA
Bromide	2.8	D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	130	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	180		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	29		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	4.9		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	45		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Iron	4.5		0.21	0.10	0.041	mg/L	1		6010C	Recoverable Dissolved
Manganese	5.8		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0030		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.0039		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	480		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	480		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW014-604

Lab Sample ID: 410-18906-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	110	J D	250	100	50	ug/L	50		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	40	J D	250	50	15	ug/L	50		8260C DOD	Total/NA
2-Hexanone	180	J D	500	50	15	ug/L	50		8260C DOD	Total/NA
4-Methyl-2-pentanone	220	J D	500	50	25	ug/L	50		8260C DOD	Total/NA
Acetone	37	J Q D	1000	100	35	ug/L	50		8260C DOD	Total/NA
Benzene	5700	D	50	25	10	ug/L	50		8260C DOD	Total/NA
Ethylbenzene	770	D	50	40	20	ug/L	50		8260C DOD	Total/NA
Isopropylbenzene	280	D	250	25	10	ug/L	50		8260C DOD	Total/NA
m&p-Xylene	1200	D	250	100	50	ug/L	50		8260C DOD	Total/NA
Naphthalene	72	J D	250	100	50	ug/L	50		8260C DOD	Total/NA
N-Propylbenzene	30	J D	250	25	10	ug/L	50		8260C DOD	Total/NA
o-Xylene	520	D	50	40	20	ug/L	50		8260C DOD	Total/NA
p-Isopropyltoluene	39	J D	250	25	10	ug/L	50		8260C DOD	Total/NA
Toluene	5800	D	50	25	10	ug/L	50		8260C DOD	Total/NA
Xylenes, Total	1700		300	100	70	ug/L	50		8260C DOD	Total/NA
Ethylene Dibromide (1C)	2.7	D M	0.29	0.19	0.095	ug/L	10		8011	Total/NA
Bromide	2.8	D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	130	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	180		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	29		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	4.9		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	45		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW014-604 (Continued)

Lab Sample ID: 410-18906-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.5		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	5.9		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0033		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.0034		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	480		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	480		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW018-204

Lab Sample ID: 410-18906-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J Q M	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.014	J	0.029	0.019	0.0096	ug/L	1		8011	Total/NA
Chloride	43	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	58	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	55		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	8.4		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.7		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.61		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

Client Sample ID: GW020-204

Lab Sample ID: 410-18906-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.76	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Chloride	38	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	73	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	58		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	8.6		0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	2.6		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	25		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Manganese	0.015		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0058		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00053		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.93		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: ER204-03

Lab Sample ID: 410-18906-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Bromodichloromethane	0.34	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Bromoform	2.3	J	4.0	2.0	1.0	ug/L	1		8260C DOD	Total/NA
Dibromochloromethane	1.7		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Calcium	0.25		0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Manganese	0.0045	J	0.010	0.0050	0.0030	mg/L	1		6010C	Total Recoverable
Sodium	0.41	J	1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Lead	0.00055		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA

Client Sample ID: TB204-66

Lab Sample ID: 410-18906-7

No Detections.

Client Sample ID: TB204-67

Lab Sample ID: 410-18906-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW006-204

Lab Sample ID: 410-18906-1

Date Collected: 10/29/20 16:32

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:14	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,1,2-Trichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 20:14	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 20:14	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 20:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 20:14	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,2-Dichloroethane	2.4		1.0	0.50	0.30	ug/L		11/10/20 20:14	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,3,5-Trimethylbenzene	0.41	J M	5.0	1.0	0.30	ug/L		11/10/20 20:14	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:14	1
2-Butanone	1.4	J	10	1.0	0.30	ug/L		11/10/20 20:14	1
2-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		11/10/20 20:14	1
4-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
4-Methyl-2-pentanone	1.0	U M	10	1.0	0.50	ug/L		11/10/20 20:14	1
Acetone	11	J Q	20	2.0	0.70	ug/L		11/10/20 20:14	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 20:14	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 20:14	1
Benzene	6.5		1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
Bromodichloromethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 20:14	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:14	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Chloroform	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Dibromomethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Ethylbenzene	4.0		1.0	0.80	0.40	ug/L		11/10/20 20:14	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 20:14	1
Isopropylbenzene	13		5.0	0.50	0.20	ug/L		11/10/20 20:14	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW006-204

Lab Sample ID: 410-18906-1

Date Collected: 10/29/20 16:32

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	6.7		5.0	2.0	1.0	ug/L		11/10/20 20:14	1
Methyl tertiary butyl ether	0.90	J	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:14	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 20:14	1
n-Butylbenzene	0.37	J	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
N-Propylbenzene	3.0	J	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
o-Xylene	4.2		1.0	0.80	0.40	ug/L		11/10/20 20:14	1
p-Isopropyltoluene	1.2	J	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
sec-Butylbenzene	1.0	J	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
Styrene	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 20:14	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 20:14	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Toluene	4.3		1.0	0.50	0.20	ug/L		11/10/20 20:14	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 20:14	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:14	1
Xylenes, Total	11		6.0	2.0	1.4	ug/L		11/10/20 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		81 - 118		11/10/20 20:14	1
4-Bromofluorobenzene (Surr)	101		85 - 114		11/10/20 20:14	1
Dibromofluoromethane (Surr)	97		80 - 119		11/10/20 20:14	1
Toluene-d8 (Surr)	101		89 - 112		11/10/20 20:14	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U J1	0.020	0.019	0.020	ug/L		11/09/20 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	69	M	46 - 136	11/05/20 12:00	11/09/20 19:21	1
1,1,2,2-Tetrachloroethane (2C)	103		46 - 136	11/05/20 12:00	11/09/20 19:21	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/18/20 07:34	5
Chloride	10	D	2.0	1.5	1.0	mg/L		11/18/20 07:34	5
Sulfate	3.0	J D	5.0	4.5	1.5	mg/L		11/18/20 07:34	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	68		0.20	0.15	0.096	mg/L		11/02/20 20:13	1
Magnesium	22		0.10	0.075	0.040	mg/L		11/02/20 20:13	1
Potassium	2.7		0.50	0.38	0.20	mg/L		11/19/20 09:55	1
Sodium	73		1.0	0.50	0.24	mg/L		11/02/20 20:13	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.20	J	0.21	0.10	0.041	mg/L		11/03/20 19:24	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW006-204

Lab Sample ID: 410-18906-1

Date Collected: 10/29/20 16:32

Matrix: Water

Date Received: 10/30/20 10:42

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	1.2		0.010	0.0052	0.0031	mg/L		11/10/20 09:26	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0017	J	0.0020	0.0016	0.00068	mg/L		11/04/20 18:04	1
Lead	0.00038	J	0.00050	0.00025	0.000071	mg/L		11/04/20 18:04	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	260		8.0	6.0	2.6	mg/L		11/04/20 02:20	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/04/20 02:20	1
Total Alkalinity as CaCO ₃ to pH 4.5	260		8.0	6.0	2.6	mg/L		11/04/20 02:20	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:14	1

Client Sample ID: GW014-204

Lab Sample ID: 410-18906-2

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
1,1,1-Trichloroethane	5.0	U	10	5.0	3.0	ug/L		11/12/20 06:40	10
1,1,2,2-Tetrachloroethane	5.0	U M	10	5.0	2.0	ug/L		11/12/20 06:40	10
1,1,2-Trichloroethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
1,1-Dichloroethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
1,1-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
1,1-Dichloropropene	5.0	U	50	5.0	2.0	ug/L		11/12/20 06:40	10
1,2,3-Trichlorobenzene	10	U	50	10	4.0	ug/L		11/12/20 06:40	10
1,2,3-Trichloropropane	5.0	U M	50	5.0	2.0	ug/L		11/12/20 06:40	10
1,2,4-Trichlorobenzene	10	U	50	10	3.0	ug/L		11/12/20 06:40	10
1,2,4-Trimethylbenzene	130	D	50	20	10	ug/L		11/12/20 06:40	10
1,2-Dibromo-3-Chloropropane	10	U	50	10	3.0	ug/L		11/12/20 06:40	10
1,2-Dibromoethane	5.0	U M	10	5.0	2.0	ug/L		11/12/20 06:40	10
1,2-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/12/20 06:40	10
1,2-Dichloroethane	6.9	J D M	10	5.0	3.0	ug/L		11/12/20 06:40	10
1,2-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
1,3,5-Trimethylbenzene	43	J D	50	10	3.0	ug/L		11/12/20 06:40	10
1,3-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/12/20 06:40	10
1,3-Dichloropropane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
1,4-Dichlorobenzene	5.0	U	50	5.0	2.0	ug/L		11/12/20 06:40	10
2,2-Dichloropropane	5.0	U	10	5.0	3.0	ug/L		11/12/20 06:40	10
2-Butanone	9.5	J D	100	10	3.0	ug/L		11/12/20 06:40	10
2-Chlorotoluene	5.0	U M	50	5.0	2.0	ug/L		11/12/20 06:40	10
2-Hexanone	180	D	100	10	3.0	ug/L		11/12/20 06:40	10
4-Chlorotoluene	5.0	U M	50	5.0	2.0	ug/L		11/12/20 06:40	10
4-Methyl-2-pentanone	230	D	100	10	5.0	ug/L		11/12/20 06:40	10
Acetone	40	J D Q	200	20	7.0	ug/L		11/12/20 06:40	10
Acrolein	50	U	1000	50	30	ug/L		11/12/20 06:40	10
Acrylonitrile	10	U	200	10	3.0	ug/L		11/12/20 06:40	10
Bromobenzene	5.0	U	50	5.0	2.0	ug/L		11/12/20 06:40	10

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW014-204

Lab Sample ID: 410-18906-2

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromochloromethane	5.0	U	50	5.0	2.0	ug/L		11/12/20 06:40	10
Bromodichloromethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Bromoform	20	U	40	20	10	ug/L		11/12/20 06:40	10
Bromomethane	5.0	U	10	5.0	3.0	ug/L		11/12/20 06:40	10
Carbon disulfide	5.0	U	50	5.0	2.0	ug/L		11/12/20 06:40	10
Carbon tetrachloride	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Chlorobenzene	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Chloroethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Chloroform	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Chloromethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
cis-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
cis-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Dibromochloromethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Dibromomethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Dichlorodifluoromethane	5.0	U Q	10	5.0	2.0	ug/L		11/12/20 06:40	10
Ethylbenzene	800	D	10	8.0	4.0	ug/L		11/12/20 06:40	10
Hexachlorobutadiene	40	U	50	40	20	ug/L		11/12/20 06:40	10
Isopropylbenzene	320	D	50	5.0	2.0	ug/L		11/12/20 06:40	10
m&p-Xylene	1300	D	50	20	10	ug/L		11/12/20 06:40	10
Methyl tertiary butyl ether	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Methylene Chloride	5.0	U	10	5.0	3.0	ug/L		11/12/20 06:40	10
Naphthalene	83	D	50	20	10	ug/L		11/12/20 06:40	10
n-Butylbenzene	2.1	J D	50	5.0	2.0	ug/L		11/12/20 06:40	10
N-Propylbenzene	33	J D	50	5.0	2.0	ug/L		11/12/20 06:40	10
o-Xylene	570	D	10	8.0	4.0	ug/L		11/12/20 06:40	10
p-Isopropyltoluene	47	J D	50	5.0	2.0	ug/L		11/12/20 06:40	10
sec-Butylbenzene	4.8	J D	50	5.0	2.0	ug/L		11/12/20 06:40	10
Styrene	5.0	U M	50	5.0	2.0	ug/L		11/12/20 06:40	10
tert-Butylbenzene	10	U	50	10	3.0	ug/L		11/12/20 06:40	10
Tetrachloroethene	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
trans-1,2-Dichloroethene	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
trans-1,3-Dichloropropene	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Trichloroethene	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Trichlorofluoromethane	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Vinyl acetate	20	U	100	20	7.0	ug/L		11/12/20 06:40	10
Vinyl chloride	5.0	U	10	5.0	2.0	ug/L		11/12/20 06:40	10
Xylenes, Total	1900		60	20	14	ug/L		11/12/20 06:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/12/20 06:40	10
4-Bromofluorobenzene (Surr)	99		85 - 114		11/12/20 06:40	10
Dibromofluoromethane (Surr)	97		80 - 119		11/12/20 06:40	10
Toluene-d8 (Surr)	97		89 - 112		11/12/20 06:40	10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	6100	D	100	50	20	ug/L		11/12/20 07:02	100
Toluene	6300	D	100	50	20	ug/L		11/12/20 07:02	100

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW014-204

Lab Sample ID: 410-18906-2

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		11/12/20 07:02	100
4-Bromofluorobenzene (Surr)	98		85 - 114		11/12/20 07:02	100
Dibromofluoromethane (Surr)	98		80 - 119		11/12/20 07:02	100
Toluene-d8 (Surr)	98		89 - 112		11/12/20 07:02	100

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	2.6	D M	0.29	0.19	0.096	ug/L		11/10/20 20:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	305	J1 Q	46 - 136	11/05/20 12:00	11/10/20 20:43	10
1,1,2,2-Tetrachloroethane (2C)	877	J1 Q	46 - 136	11/05/20 12:00	11/10/20 20:43	10

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.8	D	2.5	2.0	1.3	mg/L		11/18/20 08:42	5
Chloride	130	D	20	15	10	mg/L		11/18/20 08:59	50
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/18/20 08:42	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	180		0.20	0.15	0.096	mg/L		11/02/20 20:23	1
Magnesium	29		0.10	0.075	0.040	mg/L		11/02/20 20:23	1
Potassium	4.9		0.50	0.38	0.20	mg/L		11/02/20 20:23	1
Sodium	45		1.0	0.50	0.24	mg/L		11/02/20 20:23	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	4.5		0.21	0.10	0.041	mg/L		11/03/20 19:28	1
Manganese	5.8		0.010	0.0052	0.0031	mg/L		11/10/20 09:30	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0030		0.0020	0.0016	0.00068	mg/L		11/04/20 18:06	1
Lead	0.0039		0.00050	0.00025	0.000071	mg/L		11/04/20 18:06	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	480		8.0	6.0	2.6	mg/L		11/04/20 02:02	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		11/04/20 02:02	1
Total Alkalinity as CaCO3 to pH 4.5	480		8.0	6.0	2.6	mg/L		11/04/20 02:02	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:15	1

Client Sample ID: GW014-604

Lab Sample ID: 410-18906-3

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
1,1,1-Trichloroethane	25	U	50	25	15	ug/L		11/12/20 07:24	50
1,1,2,2-Tetrachloroethane	25	U	50	25	10	ug/L		11/12/20 07:24	50

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW014-604

Lab Sample ID: 410-18906-3

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,2-Trichloroethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
1,1-Dichloroethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
1,1-Dichloroethene	25	U	50	25	10	ug/L		11/12/20 07:24	50
1,1-Dichloropropene	25	U	250	25	10	ug/L		11/12/20 07:24	50
1,2,3-Trichlorobenzene	50	U	250	50	20	ug/L		11/12/20 07:24	50
1,2,3-Trichloropropane	25	U M	250	25	10	ug/L		11/12/20 07:24	50
1,2,4-Trichlorobenzene	50	U	250	50	15	ug/L		11/12/20 07:24	50
1,2,4-Trimethylbenzene	110	J D	250	100	50	ug/L		11/12/20 07:24	50
1,2-Dibromo-3-Chloropropane	50	U	250	50	15	ug/L		11/12/20 07:24	50
1,2-Dibromoethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
1,2-Dichlorobenzene	25	U	250	25	10	ug/L		11/12/20 07:24	50
1,2-Dichloroethane	25	U	50	25	15	ug/L		11/12/20 07:24	50
1,2-Dichloropropane	25	U	50	25	10	ug/L		11/12/20 07:24	50
1,3,5-Trimethylbenzene	40	J D	250	50	15	ug/L		11/12/20 07:24	50
1,3-Dichlorobenzene	25	U	250	25	10	ug/L		11/12/20 07:24	50
1,3-Dichloropropane	25	U	50	25	10	ug/L		11/12/20 07:24	50
1,4-Dichlorobenzene	25	U	250	25	10	ug/L		11/12/20 07:24	50
2,2-Dichloropropane	25	U	50	25	15	ug/L		11/12/20 07:24	50
2-Butanone	50	U	500	50	15	ug/L		11/12/20 07:24	50
2-Chlorotoluene	25	U	250	25	10	ug/L		11/12/20 07:24	50
2-Hexanone	180	J D	500	50	15	ug/L		11/12/20 07:24	50
4-Chlorotoluene	25	U	250	25	10	ug/L		11/12/20 07:24	50
4-Methyl-2-pentanone	220	J D	500	50	25	ug/L		11/12/20 07:24	50
Acetone	37	J Q D	1000	100	35	ug/L		11/12/20 07:24	50
Acrolein	250	U	5000	250	150	ug/L		11/12/20 07:24	50
Acrylonitrile	50	U	1000	50	15	ug/L		11/12/20 07:24	50
Benzene	5700	D	50	25	10	ug/L		11/12/20 07:24	50
Bromobenzene	25	U	250	25	10	ug/L		11/12/20 07:24	50
Bromochloromethane	25	U	250	25	10	ug/L		11/12/20 07:24	50
Bromodichloromethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
Bromoform	100	U	200	100	50	ug/L		11/12/20 07:24	50
Bromomethane	25	U	50	25	15	ug/L		11/12/20 07:24	50
Carbon disulfide	25	U	250	25	10	ug/L		11/12/20 07:24	50
Carbon tetrachloride	25	U	50	25	10	ug/L		11/12/20 07:24	50
Chlorobenzene	25	U	50	25	10	ug/L		11/12/20 07:24	50
Chloroethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
Chloroform	25	U	50	25	10	ug/L		11/12/20 07:24	50
Chloromethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
cis-1,2-Dichloroethene	25	U	50	25	10	ug/L		11/12/20 07:24	50
cis-1,3-Dichloropropene	25	U	50	25	10	ug/L		11/12/20 07:24	50
Dibromochloromethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
Dibromomethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
Dichlorodifluoromethane	25	U Q	50	25	10	ug/L		11/12/20 07:24	50
Ethylbenzene	770	D	50	40	20	ug/L		11/12/20 07:24	50
Hexachlorobutadiene	200	U	250	200	100	ug/L		11/12/20 07:24	50
Isopropylbenzene	280	D	250	25	10	ug/L		11/12/20 07:24	50
m&p-Xylene	1200	D	250	100	50	ug/L		11/12/20 07:24	50
Methyl tertiary butyl ether	25	U	50	25	10	ug/L		11/12/20 07:24	50
Methylene Chloride	25	U	50	25	15	ug/L		11/12/20 07:24	50

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW014-604

Lab Sample ID: 410-18906-3

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Naphthalene	72	J D	250	100	50	ug/L		11/12/20 07:24	50
n-Butylbenzene	25	U	250	25	10	ug/L		11/12/20 07:24	50
N-Propylbenzene	30	J D	250	25	10	ug/L		11/12/20 07:24	50
o-Xylene	520	D	50	40	20	ug/L		11/12/20 07:24	50
p-Isopropyltoluene	39	J D	250	25	10	ug/L		11/12/20 07:24	50
sec-Butylbenzene	25	U	250	25	10	ug/L		11/12/20 07:24	50
Styrene	25	U M	250	25	10	ug/L		11/12/20 07:24	50
tert-Butylbenzene	50	U	250	50	15	ug/L		11/12/20 07:24	50
Tetrachloroethene	25	U	50	25	10	ug/L		11/12/20 07:24	50
Toluene	5800	D	50	25	10	ug/L		11/12/20 07:24	50
trans-1,2-Dichloroethene	25	U	50	25	10	ug/L		11/12/20 07:24	50
trans-1,3-Dichloropropene	25	U	50	25	10	ug/L		11/12/20 07:24	50
Trichloroethene	25	U	50	25	10	ug/L		11/12/20 07:24	50
Trichlorofluoromethane	25	U	50	25	10	ug/L		11/12/20 07:24	50
Vinyl acetate	100	U	500	100	35	ug/L		11/12/20 07:24	50
Vinyl chloride	25	U	50	25	10	ug/L		11/12/20 07:24	50
Xylenes, Total	1700		300	100	70	ug/L		11/12/20 07:24	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/12/20 07:24	50
4-Bromofluorobenzene (Surr)	99		85 - 114		11/12/20 07:24	50
Dibromofluoromethane (Surr)	97		80 - 119		11/12/20 07:24	50
Toluene-d8 (Surr)	98		89 - 112		11/12/20 07:24	50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	2.7	D M	0.29	0.19	0.095	ug/L		11/10/20 21:00	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	175	J1 Q	46 - 136	11/05/20 12:00	11/10/20 21:00	10
1,1,2,2-Tetrachloroethane (2C)	852	J1 Q	46 - 136	11/05/20 12:00	11/10/20 21:00	10

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.8	D	2.5	2.0	1.3	mg/L		11/18/20 09:16	5
Chloride	130	D	20	15	10	mg/L		11/18/20 09:34	50
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/18/20 09:16	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	180		0.20	0.15	0.096	mg/L		11/02/20 20:27	1
Magnesium	29		0.10	0.075	0.040	mg/L		11/02/20 20:27	1
Potassium	4.9		0.50	0.38	0.20	mg/L		11/02/20 20:27	1
Sodium	45		1.0	0.50	0.24	mg/L		11/02/20 20:27	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	4.5		0.21	0.10	0.041	mg/L		11/03/20 19:38	1
Manganese	5.9		0.010	0.0052	0.0031	mg/L		11/10/20 09:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW014-604

Lab Sample ID: 410-18906-3

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0033		0.0020	0.0016	0.00068	mg/L		11/04/20 18:07	1
Lead	0.0034		0.00050	0.00025	0.000071	mg/L		11/04/20 18:07	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	480		8.0	6.0	2.6	mg/L		11/04/20 01:55	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/04/20 01:55	1
Total Alkalinity as CaCO ₃ to pH 4.5	480		8.0	6.0	2.6	mg/L		11/04/20 01:55	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:16	1

Client Sample ID: GW018-204

Lab Sample ID: 410-18906-4

Date Collected: 10/28/20 14:33

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:30	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 19:30	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 19:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 19:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 19:30	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:30	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 19:30	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:30	1
2-Butanone	1.0	U M	10	1.0	0.30	ug/L		11/10/20 19:30	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 19:30	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 19:30	1
Acetone	1.5	J Q M	20	2.0	0.70	ug/L		11/10/20 19:30	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 19:30	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 19:30	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 19:30	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW018-204

Lab Sample ID: 410-18906-4

Date Collected: 10/28/20 14:33

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:30	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 19:30	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 19:30	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 19:30	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:30	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 19:30	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 19:30	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:30	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 19:30	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 19:30	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:30	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		81 - 118		11/10/20 19:30	1
4-Bromofluorobenzene (Surr)	96		85 - 114		11/10/20 19:30	1
Dibromofluoromethane (Surr)	99		80 - 119		11/10/20 19:30	1
Toluene-d8 (Surr)	98		89 - 112		11/10/20 19:30	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.014	J	0.029	0.019	0.0096	ug/L		11/09/20 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (2C)	91		46 - 136	11/05/20 12:00	11/09/20 20:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW018-204

Lab Sample ID: 410-18906-4

Date Collected: 10/28/20 14:33

Matrix: Water

Date Received: 10/30/20 10:42

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/18/20 09:51	5
Chloride	43	D	20	15	10	mg/L		11/18/20 10:08	50
Sulfate	58	D	5.0	4.5	1.5	mg/L		11/18/20 09:51	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	55		0.20	0.15	0.096	mg/L		11/02/20 20:31	1
Magnesium	8.4		0.10	0.075	0.040	mg/L		11/02/20 20:31	1
Potassium	2.7		0.50	0.38	0.20	mg/L		11/02/20 20:31	1
Sodium	25		1.0	0.50	0.24	mg/L		11/02/20 20:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		11/03/20 19:31	1
Manganese	0.61		0.010	0.0052	0.0031	mg/L		11/10/20 09:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		11/04/20 18:09	1
Lead	0.00011	J	0.00050	0.00025	0.000071	mg/L		11/04/20 18:09	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	2.6	mg/L		11/04/20 02:35	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/04/20 02:35	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	2.6	mg/L		11/04/20 02:35	1
Nitrate Nitrite as N	1.1		0.10	0.090	0.040	mg/L		11/18/20 16:18	1

Client Sample ID: GW020-204

Lab Sample ID: 410-18906-5

Date Collected: 10/29/20 11:12

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:36	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 20:36	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 20:36	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 20:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 20:36	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:36	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 20:36	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW020-204

Lab Sample ID: 410-18906-5

Date Collected: 10/29/20 11:12

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:36	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 20:36	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 20:36	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 20:36	1
Acetone	0.76	J Q	20	2.0	0.70	ug/L		11/10/20 20:36	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 20:36	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 20:36	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 20:36	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:36	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 20:36	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 20:36	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 20:36	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 20:36	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 20:36	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 20:36	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 20:36	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 20:36	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW020-204

Lab Sample ID: 410-18906-5

Date Collected: 10/29/20 11:12

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 20:36	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 20:36	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118					11/10/20 20:36	1
4-Bromofluorobenzene (Surr)	98		85 - 114					11/10/20 20:36	1
Dibromofluoromethane (Surr)	97		80 - 119					11/10/20 20:36	1
Toluene-d8 (Surr)	99		89 - 112					11/10/20 20:36	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		11/09/20 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	106		46 - 136				11/05/20 12:00	11/09/20 20:28	1
1,1,2,2-Tetrachloroethane (2C)	105		46 - 136				11/05/20 12:00	11/09/20 20:28	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		11/18/20 10:25	5
Chloride	38	D	20	15	10	mg/L		11/18/20 10:42	50
Sulfate	73	D	5.0	4.5	1.5	mg/L		11/18/20 10:25	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	58		0.20	0.15	0.096	mg/L		11/02/20 20:34	1
Magnesium	8.6		0.10	0.075	0.040	mg/L		11/02/20 20:34	1
Potassium	2.6		0.50	0.38	0.20	mg/L		11/02/20 20:34	1
Sodium	25		1.0	0.50	0.24	mg/L		11/02/20 20:34	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		11/03/20 19:35	1
Manganese	0.015		0.010	0.0052	0.0031	mg/L		11/10/20 09:37	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0058		0.0020	0.0016	0.00068	mg/L		11/04/20 18:11	1
Lead	0.00053		0.00050	0.00025	0.000071	mg/L		11/04/20 18:11	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	110		8.0	6.0	2.6	mg/L		11/04/20 02:27	1
Carbonate Alkalinity as CaCO3	6.0	U	8.0	6.0	2.6	mg/L		11/04/20 02:27	1
Total Alkalinity as CaCO3 to pH 4.5	110		8.0	6.0	2.6	mg/L		11/04/20 02:27	1
Nitrate Nitrite as N	0.93		0.10	0.090	0.040	mg/L		11/18/20 16:19	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: ER204-03

Lab Sample ID: 410-18906-6

Date Collected: 10/28/20 12:08

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:52	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 19:52	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 19:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 19:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 19:52	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:52	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 19:52	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:52	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 19:52	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 19:52	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 19:52	1
Acetone	1.8	J Q	20	2.0	0.70	ug/L		11/10/20 19:52	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 19:52	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 19:52	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
Bromodichloromethane	0.34	J	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Bromoform	2.3	J	4.0	2.0	1.0	ug/L		11/10/20 19:52	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:52	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Dibromochloromethane	1.7		1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 19:52	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 19:52	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: ER204-03

Lab Sample ID: 410-18906-6

Date Collected: 10/28/20 12:08

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 19:52	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 19:52	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 19:52	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 19:52	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 19:52	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 19:52	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 19:52	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 19:52	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		11/10/20 19:52	1
4-Bromofluorobenzene (Surr)	96		85 - 114		11/10/20 19:52	1
Dibromofluoromethane (Surr)	100		80 - 119		11/10/20 19:52	1
Toluene-d8 (Surr)	99		89 - 112		11/10/20 19:52	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		11/09/20 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	100		46 - 136	11/05/20 12:00	11/09/20 20:45	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	11/05/20 12:00	11/09/20 20:45	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.25		0.20	0.15	0.096	mg/L		11/02/20 20:38	1
Iron	0.10	U	0.20	0.10	0.040	mg/L		11/02/20 20:38	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		11/02/20 20:38	1
Manganese	0.0045	J	0.010	0.0050	0.0030	mg/L		11/02/20 20:38	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		11/02/20 20:38	1
Sodium	0.41	J	1.0	0.50	0.24	mg/L		11/02/20 20:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		11/04/20 18:12	1
Lead	0.00055		0.00050	0.00025	0.000071	mg/L		11/04/20 18:12	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: TB204-66

Lab Sample ID: 410-18906-7

Date Collected: 10/29/20 09:31

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:27	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 15:27	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 15:27	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 15:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 15:27	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:27	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 15:27	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:27	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 15:27	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 15:27	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 15:27	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		11/10/20 15:27	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 15:27	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 15:27	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 15:27	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:27	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 15:27	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 15:27	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: TB204-66

Lab Sample ID: 410-18906-7

Date Collected: 10/29/20 09:31

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 15:27	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:27	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 15:27	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 15:27	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:27	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 15:27	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 15:27	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:27	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/10/20 15:27	1
4-Bromofluorobenzene (Surr)	96		85 - 114		11/10/20 15:27	1
Dibromofluoromethane (Surr)	100		80 - 119		11/10/20 15:27	1
Toluene-d8 (Surr)	98		89 - 112		11/10/20 15:27	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		11/09/20 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	98		46 - 136	11/05/20 12:00	11/09/20 21:02	1
1,1,2,2-Tetrachloroethane (2C)	99		46 - 136	11/05/20 12:00	11/09/20 21:02	1

Client Sample ID: TB204-67

Lab Sample ID: 410-18906-8

Date Collected: 10/29/20 09:31

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:05	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 15:05	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 15:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: TB204-67

Lab Sample ID: 410-18906-8

Date Collected: 10/29/20 09:31

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 15:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 15:05	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:05	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 15:05	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:05	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 15:05	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 15:05	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 15:05	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		11/10/20 15:05	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 15:05	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 15:05	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 15:05	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:05	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 15:05	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 15:05	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 15:05	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 15:05	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 15:05	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 15:05	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 15:05	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: TB204-67

Lab Sample ID: 410-18906-8

Date Collected: 10/29/20 09:31

Matrix: Water

Date Received: 10/30/20 10:42

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 15:05	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 15:05	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 15:05	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		11/10/20 15:05	1
4-Bromofluorobenzene (Surr)	95		85 - 114		11/10/20 15:05	1
Dibromofluoromethane (Surr)	100		80 - 119		11/10/20 15:05	1
Toluene-d8 (Surr)	98		89 - 112		11/10/20 15:05	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.029	0.019	0.0096	ug/L		11/09/20 21:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	97		46 - 136	11/05/20 12:00	11/09/20 21:18	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	11/05/20 12:00	11/09/20 21:18	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-18906-1	GW006-204	97	101	97	101
410-18906-2	GW014-204	102	99	97	97
410-18906-2 - DL	GW014-204	101	98	98	98
410-18906-3	GW014-604	99	99	97	98
410-18906-4	GW018-204	100	96	99	98
410-18906-5	GW020-204	99	98	97	99
410-18906-6	ER204-03	101	96	100	99
410-18906-7	TB204-66	102	96	100	98
410-18906-8	TB204-67	101	95	100	98
LCS 410-64224/5	Lab Control Sample	98	99	97	100
LCS 410-64224/7	Lab Control Sample	99	99	98	100
LCS 410-64962/5	Lab Control Sample	103	97	101	99
LCS 410-64962/6	Lab Control Sample	100	96	97	98
LCSD 410-64224/6	Lab Control Sample Dup	98	99	99	101
LCSD 410-64224/8	Lab Control Sample Dup	99	96	97	99
LCSD 410-64962/7	Lab Control Sample Dup	100	95	97	98
MB 410-64224/10	Method Blank	98	96	98	99
MB 410-64962/9	Method Blank	102	96	101	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1122TCA1 (46-136)	1122TCA2 (46-136)
410-18906-1	GW006-204	69 M	103
410-18906-2	GW014-204	305 J1 Q	877 J1 Q
410-18906-3	GW014-604	175 J1 Q	852 J1 Q
410-18906-4	GW018-204		91
410-18906-5	GW020-204	106	105
410-18906-6	ER204-03	100	99
410-18906-7	TB204-66	98	99
410-18906-8	TB204-67	97	101
LCS 410-62600/2-A	Lab Control Sample	117	109
LCSD 410-62600/3-A	Lab Control Sample Dup	103	103
MB 410-62600/1-A	Method Blank	98	101

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-64224/10

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 13:59	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 13:59	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 13:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 13:59	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 13:59	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 13:59	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 13:59	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 13:59	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/10/20 13:59	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 13:59	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 13:59	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 13:59	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 13:59	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 13:59	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-64224/10

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 13:59	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 13:59	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 13:59	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 13:59	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 13:59	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 13:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/10/20 13:59	1
4-Bromofluorobenzene (Surr)	96		85 - 114		11/10/20 13:59	1
Dibromofluoromethane (Surr)	98		80 - 119		11/10/20 13:59	1
Toluene-d8 (Surr)	99		89 - 112		11/10/20 13:59	1

Lab Sample ID: LCS 410-64224/5

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	78 - 124
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	80 - 119
1,1-Dichloroethane	20.0	20.9		ug/L		105	77 - 125
1,1-Dichloroethene	20.0	21.8		ug/L		109	71 - 131
1,1-Dichloropropene	20.0	21.1		ug/L		105	79 - 125
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	69 - 129
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122
1,2,4-Trichlorobenzene	20.0	20.2		ug/L		101	69 - 130
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	20.4		ug/L		102	77 - 121
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	19.7		ug/L		99	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-64224/5

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.8		ug/L		104	78 - 122
1,3,5-Trimethylbenzene	20.0	21.4		ug/L		107	75 - 124
1,3-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 119
1,3-Dichloropropane	20.0	20.1		ug/L		101	80 - 119
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	19.5		ug/L		97	60 - 139
2-Butanone	150	178		ug/L		119	56 - 143
2-Chlorotoluene	20.0	21.4		ug/L		107	79 - 122
2-Hexanone	100	121		ug/L		121	57 - 139
4-Chlorotoluene	20.0	21.0		ug/L		105	78 - 122
4-Methyl-2-pentanone	100	99.5		ug/L		99	67 - 130
Acetone	150	219		ug/L		146	39 - 160
Acrolein	150	157		ug/L		104	39 - 155
Acrylonitrile	100	97.9		ug/L		98	63 - 135
Benzene	20.0	20.8		ug/L		104	42 - 138
Bromobenzene	20.0	20.8		ug/L		104	80 - 120
Bromochloromethane	20.0	19.2		ug/L		96	78 - 123
Bromodichloromethane	20.0	20.4		ug/L		102	79 - 125
Bromoform	20.0	17.9		ug/L		89	66 - 130
Bromomethane	20.0	21.7		ug/L		108	53 - 141
Carbon disulfide	20.0	21.8		ug/L		109	64 - 133
Carbon tetrachloride	20.0	18.7		ug/L		94	72 - 136
Chlorobenzene	20.0	21.0		ug/L		105	82 - 118
Chloroethane	20.0	19.8		ug/L		99	60 - 138
Chloroform	20.0	20.6		ug/L		103	79 - 124
Chloromethane	20.0	23.1		ug/L		115	50 - 139
cis-1,2-Dichloroethene	20.0	22.1		ug/L		111	78 - 123
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	75 - 124
Dibromochloromethane	20.0	18.9		ug/L		94	74 - 126
Dibromomethane	20.0	20.2		ug/L		101	79 - 123
Dichlorodifluoromethane	20.0	23.1		ug/L		115	32 - 152
Ethylbenzene	20.0	21.4		ug/L		107	79 - 121
Hexachlorobutadiene	20.0	18.2		ug/L		91	66 - 134
Isopropylbenzene	20.0	20.6		ug/L		103	72 - 131
m&p-Xylene	40.0	43.8		ug/L		110	80 - 121
Methyl tertiary butyl ether	20.0	19.6		ug/L		98	71 - 124
Methylene Chloride	20.0	21.2		ug/L		106	74 - 124
Naphthalene	20.0	20.0		ug/L		100	61 - 128
n-Butylbenzene	20.0	20.5		ug/L		103	75 - 128
N-Propylbenzene	20.0	21.8		ug/L		109	76 - 126
o-Xylene	20.0	21.6		ug/L		108	78 - 122
p-Isopropyltoluene	20.0	21.6		ug/L		108	77 - 127
sec-Butylbenzene	20.0	20.3		ug/L		102	77 - 126
Styrene	20.0	20.2		ug/L		101	78 - 123
tert-Butylbenzene	20.0	19.5		ug/L		97	78 - 124
Tetrachloroethene	20.0	18.6		ug/L		93	74 - 129
Toluene	20.0	21.0		ug/L		105	80 - 121
trans-1,2-Dichloroethene	20.0	21.3		ug/L		107	75 - 124
trans-1,3-Dichloropropene	20.0	20.3		ug/L		102	73 - 127

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-64224/5

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.7		ug/L		104	79 - 123
Trichlorofluoromethane	20.0	20.0	M	ug/L		100	65 - 141
Vinyl chloride	20.0	23.4		ug/L		117	58 - 137
Xylenes, Total	60.0	65.4		ug/L		109	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-64224/7

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	115		ug/L		115	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCSD 410-64224/6

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	21.0		ug/L		105	78 - 124	4	20
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	74 - 131	4	20
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	71 - 121	5	20
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	80 - 119	3	20
1,1-Dichloroethane	20.0	21.6		ug/L		108	77 - 125	3	20
1,1-Dichloroethene	20.0	22.2		ug/L		111	71 - 131	2	20
1,1-Dichloropropene	20.0	21.8		ug/L		109	79 - 125	3	20
1,2,3-Trichlorobenzene	20.0	20.8		ug/L		104	69 - 129	5	20
1,2,3-Trichloropropane	20.0	21.2		ug/L		106	73 - 122	6	20
1,2,4-Trichlorobenzene	20.0	21.0		ug/L		105	69 - 130	4	20
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	76 - 124	4	20
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		101	62 - 128	6	20
1,2-Dibromoethane	20.0	21.0		ug/L		105	77 - 121	3	20
1,2-Dichlorobenzene	20.0	21.3		ug/L		107	80 - 119	3	20
1,2-Dichloroethane	20.0	20.5		ug/L		102	73 - 128	4	20
1,2-Dichloropropane	20.0	21.6		ug/L		108	78 - 122	4	20
1,3,5-Trimethylbenzene	20.0	22.4		ug/L		112	75 - 124	5	20
1,3-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 119	2	20
1,3-Dichloropropane	20.0	20.9		ug/L		104	80 - 119	4	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-64224/6

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	79 - 118	4	20
2,2-Dichloropropane	20.0	20.3		ug/L		102	60 - 139	4	20
2-Butanone	150	177		ug/L		118	56 - 143	1	20
2-Chlorotoluene	20.0	22.2		ug/L		111	79 - 122	4	20
2-Hexanone	100	122		ug/L		122	57 - 139	1	20
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122	4	20
4-Methyl-2-pentanone	100	103		ug/L		103	67 - 130	4	20
Acetone	150	205		ug/L		137	39 - 160	7	20
Acrolein	150	157		ug/L		105	39 - 155	0	20
Acrylonitrile	100	102		ug/L		102	63 - 135	4	20
Benzene	20.0	21.4		ug/L		107	42 - 138	3	20
Bromobenzene	20.0	21.6		ug/L		108	80 - 120	4	20
Bromochloromethane	20.0	19.3		ug/L		97	78 - 123	1	20
Bromodichloromethane	20.0	20.9		ug/L		105	79 - 125	2	20
Bromoform	20.0	18.5		ug/L		92	66 - 130	3	20
Bromomethane	20.0	22.6		ug/L		113	53 - 141	4	20
Carbon disulfide	20.0	22.7		ug/L		113	64 - 133	4	20
Carbon tetrachloride	20.0	19.2		ug/L		96	72 - 136	2	20
Chlorobenzene	20.0	21.6		ug/L		108	82 - 118	3	20
Chloroethane	20.0	20.9		ug/L		105	60 - 138	6	20
Chloroform	20.0	21.2		ug/L		106	79 - 124	3	20
Chloromethane	20.0	24.1		ug/L		121	50 - 139	4	20
cis-1,2-Dichloroethene	20.0	22.5		ug/L		112	78 - 123	2	20
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	75 - 124	3	20
Dibromochloromethane	20.0	19.5		ug/L		97	74 - 126	3	20
Dibromomethane	20.0	21.0		ug/L		105	79 - 123	4	20
Dichlorodifluoromethane	20.0	23.9		ug/L		120	32 - 152	4	20
Ethylbenzene	20.0	22.0		ug/L		110	79 - 121	3	20
Hexachlorobutadiene	20.0	19.2		ug/L		96	66 - 134	5	20
Isopropylbenzene	20.0	21.5		ug/L		108	72 - 131	4	20
m&p-Xylene	40.0	45.3		ug/L		113	80 - 121	3	20
Methyl tertiary butyl ether	20.0	20.1		ug/L		101	71 - 124	2	20
Methylene Chloride	20.0	21.9		ug/L		109	74 - 124	3	20
Naphthalene	20.0	21.2		ug/L		106	61 - 128	6	20
n-Butylbenzene	20.0	21.7		ug/L		108	75 - 128	5	20
N-Propylbenzene	20.0	22.8		ug/L		114	76 - 126	4	20
o-Xylene	20.0	22.4		ug/L		112	78 - 122	4	20
p-Isopropyltoluene	20.0	22.7		ug/L		114	77 - 127	5	20
sec-Butylbenzene	20.0	21.3		ug/L		107	77 - 126	5	20
Styrene	20.0	21.3		ug/L		106	78 - 123	5	20
tert-Butylbenzene	20.0	20.2		ug/L		101	78 - 124	4	20
Tetrachloroethene	20.0	18.7		ug/L		94	74 - 129	1	20
Toluene	20.0	21.8		ug/L		109	80 - 121	3	20
trans-1,2-Dichloroethene	20.0	21.9		ug/L		109	75 - 124	2	20
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	73 - 127	3	20
Trichloroethene	20.0	21.3		ug/L		107	79 - 123	3	20
Trichlorofluoromethane	20.0	20.5		ug/L		102	65 - 141	3	20
Vinyl chloride	20.0	24.7		ug/L		124	58 - 137	6	20
Xylenes, Total	60.0	67.7		ug/L		113	79 - 121	3	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	101		89 - 112

Lab Sample ID: LCSD 410-64224/8
Matrix: Water
Analysis Batch: 64224

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	117		ug/L		117	54 - 146	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: MB 410-64962/9
Matrix: Water
Analysis Batch: 64962

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/11/20 23:22	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/11/20 23:22	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/11/20 23:22	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/11/20 23:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/11/20 23:22	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/11/20 23:22	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/11/20 23:22	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/11/20 23:22	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/11/20 23:22	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/11/20 23:22	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/11/20 23:22	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/11/20 23:22	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/11/20 23:22	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-64962/9

Matrix: Water

Analysis Batch: 64962

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/11/20 23:22	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/11/20 23:22	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/11/20 23:22	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/11/20 23:22	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/11/20 23:22	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/11/20 23:22	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/11/20 23:22	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/11/20 23:22	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/11/20 23:22	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/11/20 23:22	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/11/20 23:22	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/11/20 23:22	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/11/20 23:22	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/11/20 23:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		11/11/20 23:22	1
4-Bromofluorobenzene (Surr)	96		85 - 114		11/11/20 23:22	1
Dibromofluoromethane (Surr)	101		80 - 119		11/11/20 23:22	1
Toluene-d8 (Surr)	97		89 - 112		11/11/20 23:22	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-64962/5

Matrix: Water

Analysis Batch: 64962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/L		100	78 - 124
1,1,1-Trichloroethane	20.0	20.1		ug/L		101	74 - 131
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		99	71 - 121
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	80 - 119
1,1-Dichloroethane	20.0	19.7		ug/L		99	77 - 125
1,1-Dichloroethene	20.0	20.4		ug/L		102	71 - 131
1,1-Dichloropropene	20.0	20.2		ug/L		101	79 - 125
1,2,3-Trichlorobenzene	20.0	19.7		ug/L		99	69 - 129
1,2,3-Trichloropropane	20.0	19.9		ug/L		100	73 - 122
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	69 - 130
1,2,4-Trimethylbenzene	20.0	20.6		ug/L		103	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.9		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	20.0		ug/L		100	77 - 121
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 119
1,2-Dichloroethane	20.0	19.8		ug/L		99	73 - 128
1,2-Dichloropropane	20.0	20.1		ug/L		100	78 - 122
1,3,5-Trimethylbenzene	20.0	20.5		ug/L		103	75 - 124
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 119
1,3-Dichloropropane	20.0	19.5		ug/L		97	80 - 119
1,4-Dichlorobenzene	20.0	20.5		ug/L		102	79 - 118
2,2-Dichloropropane	20.0	18.6		ug/L		93	60 - 139
2-Butanone	150	148		ug/L		98	56 - 143
2-Chlorotoluene	20.0	20.6		ug/L		103	79 - 122
2-Hexanone	100	103		ug/L		103	57 - 139
4-Chlorotoluene	20.0	20.5		ug/L		103	78 - 122
4-Methyl-2-pentanone	100	97.4		ug/L		97	67 - 130
Acetone	150	150		ug/L		100	39 - 160
Acrolein	150	136		ug/L		91	39 - 155
Acrylonitrile	100	94.1		ug/L		94	63 - 135
Benzene	20.0	20.1		ug/L		101	42 - 138
Bromobenzene	20.0	20.4		ug/L		102	80 - 120
Bromochloromethane	20.0	19.0		ug/L		95	78 - 123
Bromodichloromethane	20.0	20.0		ug/L		100	79 - 125
Bromoform	20.0	17.3		ug/L		87	66 - 130
Bromomethane	20.0	19.0		ug/L		95	53 - 141
Carbon disulfide	20.0	19.7		ug/L		98	64 - 133
Carbon tetrachloride	20.0	18.8		ug/L		94	72 - 136
Chlorobenzene	20.0	20.5		ug/L		102	82 - 118
Chloroethane	20.0	16.9		ug/L		85	60 - 138
Chloroform	20.0	20.4		ug/L		102	79 - 124
Chloromethane	20.0	17.9		ug/L		90	50 - 139
cis-1,2-Dichloroethene	20.0	21.2		ug/L		106	78 - 123
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	75 - 124
Dibromochloromethane	20.0	18.6		ug/L		93	74 - 126
Dibromomethane	20.0	20.0		ug/L		100	79 - 123
Dichlorodifluoromethane	20.0	18.2		ug/L		91	32 - 152
Ethylbenzene	20.0	20.3		ug/L		101	79 - 121
Hexachlorobutadiene	20.0	17.8		ug/L		89	66 - 134

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-64962/5

Matrix: Water

Analysis Batch: 64962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	20.0	19.7		ug/L		98	72 - 131
m&p-Xylene	40.0	41.9		ug/L		105	80 - 121
Methyl tertiary butyl ether	20.0	18.6		ug/L		93	71 - 124
Methylene Chloride	20.0	20.0		ug/L		100	74 - 124
Naphthalene	20.0	19.8		ug/L		99	61 - 128
n-Butylbenzene	20.0	19.5		ug/L		97	75 - 128
N-Propylbenzene	20.0	20.6		ug/L		103	76 - 126
o-Xylene	20.0	20.6		ug/L		103	78 - 122
p-Isopropyltoluene	20.0	20.8		ug/L		104	77 - 127
sec-Butylbenzene	20.0	19.4		ug/L		97	77 - 126
Styrene	20.0	19.7		ug/L		98	78 - 123
tert-Butylbenzene	20.0	20.1		ug/L		101	78 - 124
Tetrachloroethene	20.0	17.7		ug/L		88	74 - 129
Toluene	20.0	20.0		ug/L		100	80 - 121
trans-1,2-Dichloroethene	20.0	20.6		ug/L		103	75 - 124
trans-1,3-Dichloropropene	20.0	18.8		ug/L		94	73 - 127
Trichloroethene	20.0	20.0		ug/L		100	79 - 123
Trichlorofluoromethane	20.0	19.0		ug/L		95	65 - 141
Vinyl chloride	20.0	19.1		ug/L		95	58 - 137
Xylenes, Total	60.0	62.5		ug/L		104	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	101		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Lab Sample ID: LCS 410-64962/6

Matrix: Water

Analysis Batch: 64962

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	104		ug/L		104	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Lab Sample ID: LCSD 410-64962/7

Matrix: Water

Analysis Batch: 64962

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	109		ug/L		109	54 - 146	4	20

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-64962/7

Matrix: Water

Analysis Batch: 64962

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	98		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-62600/1-A

Matrix: Water

Analysis Batch: 63862

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 62600

Analyte	MB	MB	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
	Result	Qualifier							
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		11/09/20 17:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,1,2,2-Tetrachloroethane (1C)	98		46 - 136	11/05/20 12:00	11/09/20 17:58	1
1,1,2,2-Tetrachloroethane (2C)	101		46 - 136	11/05/20 12:00	11/09/20 17:58	1

Lab Sample ID: LCS 410-62600/2-A

Matrix: Water

Analysis Batch: 63862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 62600

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (1C)		0.128	0.166		ug/L		130	60 - 140	
Surrogate	LCS	LCS							
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier	Limits						
1,1,2,2-Tetrachloroethane (2C)	117		46 - 136						
1,1,2,2-Tetrachloroethane (2C)	109		46 - 136						

Lab Sample ID: LCSD 410-62600/3-A

Matrix: Water

Analysis Batch: 63862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 62600

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)		0.128	0.147		ug/L		115	60 - 140	12	20
Surrogate	LCSD	LCSD								
1,1,2,2-Tetrachloroethane (1C)	%Recovery	Qualifier	Limits							
1,1,2,2-Tetrachloroethane (2C)	103		46 - 136							
1,1,2,2-Tetrachloroethane (2C)	103		46 - 136							

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-67313/4

Matrix: Water

Analysis Batch: 67313

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB		LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U		0.50	0.40	0.25	mg/L		11/18/20 05:18	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-67313/4

Matrix: Water

Analysis Batch: 67313

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloride	0.30	U	0.40	0.30	0.20	mg/L		11/18/20 05:18	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/18/20 05:18	1

Lab Sample ID: LCS 410-67313/3

Matrix: Water

Analysis Batch: 67313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.45		mg/L		99	90 - 110
Chloride	3.00	2.92		mg/L		97	90 - 110
Sulfate	7.50	7.41		mg/L		99	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-61178/1-A

Matrix: Water

Analysis Batch: 61785

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61178

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		11/03/20 17:44	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		11/03/20 17:44	1

Lab Sample ID: LCS 410-61178/2-A

Matrix: Water

Analysis Batch: 61785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.446		mg/L		111	87 - 115

Lab Sample ID: LCS 410-61178/2-A

Matrix: Water

Analysis Batch: 64252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.0200	0.0226		mg/L		113	90 - 114

Lab Sample ID: MB 410-60691/1-A

Matrix: Water

Analysis Batch: 61278

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 60691

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		11/02/20 19:42	1
Iron	100	U	200	100	40	ug/L		11/02/20 19:42	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		11/02/20 19:42	1
Manganese	5.0	U	10	5.0	3.0	ug/L		11/02/20 19:42	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		11/02/20 19:42	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		11/02/20 19:42	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 410-60691/2-A

Matrix: Water

Analysis Batch: 61278

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 60691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.410		mg/L		102	87 - 113
Iron	402	422		ug/L		105	87 - 115
Magnesium	0.200	0.209		mg/L		105	85 - 113
Manganese	20.0	20.1		ug/L		101	90 - 114
Potassium	5.60	5.25		mg/L		94	86 - 114
Sodium	2.00	2.05		mg/L		102	87 - 115

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-60816/1-A

Matrix: Water

Analysis Batch: 62398

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 60816

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		11/04/20 17:23	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		11/04/20 17:23	1

Lab Sample ID: LCS 410-60816/2-A

Matrix: Water

Analysis Batch: 62398

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 60816

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0669		mg/L		111	84 - 116
Lead	0.0300	0.0326		mg/L		109	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-62152/74

Matrix: Water

Analysis Batch: 62152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/04/20 00:58	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/04/20 00:58	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		11/04/20 00:58	1

Lab Sample ID: LCS 410-62152/75

Matrix: Water

Analysis Batch: 62152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	166		mg/L		88	82 - 106

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-68067/20

Matrix: Water

Analysis Batch: 68067

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:05	1

Lab Sample ID: LCS 410-68067/21

Matrix: Water

Analysis Batch: 68067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.57		mg/L		103	90 - 110

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

GC/MS VOA

Analysis Batch: 64224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total/NA	Water	8260C DOD	
410-18906-4	GW018-204	Total/NA	Water	8260C DOD	
410-18906-5	GW020-204	Total/NA	Water	8260C DOD	
410-18906-6	ER204-03	Total/NA	Water	8260C DOD	
410-18906-7	TB204-66	Total/NA	Water	8260C DOD	
410-18906-8	TB204-67	Total/NA	Water	8260C DOD	
MB 410-64224/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-64224/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-64224/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-64224/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-64224/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

Analysis Batch: 64962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-2	GW014-204	Total/NA	Water	8260C DOD	
410-18906-2 - DL	GW014-204	Total/NA	Water	8260C DOD	
410-18906-3	GW014-604	Total/NA	Water	8260C DOD	
MB 410-64962/9	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-64962/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-64962/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-64962/7	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 62600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total/NA	Water	8011	
410-18906-2	GW014-204	Total/NA	Water	8011	
410-18906-3	GW014-604	Total/NA	Water	8011	
410-18906-4	GW018-204	Total/NA	Water	8011	
410-18906-5	GW020-204	Total/NA	Water	8011	
410-18906-6	ER204-03	Total/NA	Water	8011	
410-18906-7	TB204-66	Total/NA	Water	8011	
410-18906-8	TB204-67	Total/NA	Water	8011	
MB 410-62600/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-62600/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-62600/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 63862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total/NA	Water	8011	62600
410-18906-4	GW018-204	Total/NA	Water	8011	62600
410-18906-5	GW020-204	Total/NA	Water	8011	62600
410-18906-6	ER204-03	Total/NA	Water	8011	62600
410-18906-7	TB204-66	Total/NA	Water	8011	62600
410-18906-8	TB204-67	Total/NA	Water	8011	62600
MB 410-62600/1-A	Method Blank	Total/NA	Water	8011	62600
LCS 410-62600/2-A	Lab Control Sample	Total/NA	Water	8011	62600
LCSD 410-62600/3-A	Lab Control Sample Dup	Total/NA	Water	8011	62600

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

GC Semi VOA

Analysis Batch: 64429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-2	GW014-204	Total/NA	Water	8011	62600
410-18906-3	GW014-604	Total/NA	Water	8011	62600

HPLC/IC

Analysis Batch: 67313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total/NA	Water	EPA 300.0 R2.1	
410-18906-2	GW014-204	Total/NA	Water	EPA 300.0 R2.1	
410-18906-2	GW014-204	Total/NA	Water	EPA 300.0 R2.1	
410-18906-3	GW014-604	Total/NA	Water	EPA 300.0 R2.1	
410-18906-3	GW014-604	Total/NA	Water	EPA 300.0 R2.1	
410-18906-4	GW018-204	Total/NA	Water	EPA 300.0 R2.1	
410-18906-4	GW018-204	Total/NA	Water	EPA 300.0 R2.1	
410-18906-5	GW020-204	Total/NA	Water	EPA 300.0 R2.1	
410-18906-5	GW020-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-67313/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-67313/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 60691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total Recoverable	Water	3005A	
410-18906-2	GW014-204	Total Recoverable	Water	3005A	
410-18906-3	GW014-604	Total Recoverable	Water	3005A	
410-18906-4	GW018-204	Total Recoverable	Water	3005A	
410-18906-5	GW020-204	Total Recoverable	Water	3005A	
410-18906-6	ER204-03	Total Recoverable	Water	3005A	
MB 410-60691/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-60691/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 60816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total/NA	Water	3005A	
410-18906-2	GW014-204	Total/NA	Water	3005A	
410-18906-3	GW014-604	Total/NA	Water	3005A	
410-18906-4	GW018-204	Total/NA	Water	3005A	
410-18906-5	GW020-204	Total/NA	Water	3005A	
410-18906-6	ER204-03	Total/NA	Water	3005A	
MB 410-60816/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-60816/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 61178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Dissolved	Water	Non-Digest Prep	
410-18906-2	GW014-204	Dissolved	Water	Non-Digest Prep	
410-18906-3	GW014-604	Dissolved	Water	Non-Digest Prep	
410-18906-4	GW018-204	Dissolved	Water	Non-Digest Prep	
410-18906-5	GW020-204	Dissolved	Water	Non-Digest Prep	
MB 410-61178/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-61178/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Metals

Analysis Batch: 61278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total Recoverable	Water	6010C	60691
410-18906-2	GW014-204	Total Recoverable	Water	6010C	60691
410-18906-3	GW014-604	Total Recoverable	Water	6010C	60691
410-18906-4	GW018-204	Total Recoverable	Water	6010C	60691
410-18906-5	GW020-204	Total Recoverable	Water	6010C	60691
410-18906-6	ER204-03	Total Recoverable	Water	6010C	60691
MB 410-60691/1-A	Method Blank	Total Recoverable	Water	6010C	60691
LCS 410-60691/2-A	Lab Control Sample	Total Recoverable	Water	6010C	60691

Analysis Batch: 61785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Dissolved	Water	6010C	61178
410-18906-2	GW014-204	Dissolved	Water	6010C	61178
410-18906-3	GW014-604	Dissolved	Water	6010C	61178
410-18906-4	GW018-204	Dissolved	Water	6010C	61178
410-18906-5	GW020-204	Dissolved	Water	6010C	61178
MB 410-61178/1-A	Method Blank	Total/NA	Water	6010C	61178
LCS 410-61178/2-A	Lab Control Sample	Total/NA	Water	6010C	61178

Analysis Batch: 62398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total/NA	Water	6020A	60816
410-18906-2	GW014-204	Total/NA	Water	6020A	60816
410-18906-3	GW014-604	Total/NA	Water	6020A	60816
410-18906-4	GW018-204	Total/NA	Water	6020A	60816
410-18906-5	GW020-204	Total/NA	Water	6020A	60816
410-18906-6	ER204-03	Total/NA	Water	6020A	60816
MB 410-60816/1-A	Method Blank	Total Recoverable	Water	6020A	60816
LCS 410-60816/2-A	Lab Control Sample	Total Recoverable	Water	6020A	60816

Analysis Batch: 64252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Dissolved	Water	6010C	61178
410-18906-2	GW014-204	Dissolved	Water	6010C	61178
410-18906-3	GW014-604	Dissolved	Water	6010C	61178
410-18906-4	GW018-204	Dissolved	Water	6010C	61178
410-18906-5	GW020-204	Dissolved	Water	6010C	61178
LCS 410-61178/2-A	Lab Control Sample	Total/NA	Water	6010C	61178

Analysis Batch: 68078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total Recoverable	Water	6010C	60691

General Chemistry

Analysis Batch: 62152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total/NA	Water	2320B-2011	
410-18906-2	GW014-204	Total/NA	Water	2320B-2011	
410-18906-3	GW014-604	Total/NA	Water	2320B-2011	
410-18906-4	GW018-204	Total/NA	Water	2320B-2011	

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QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

General Chemistry (Continued)

Analysis Batch: 62152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-5	GW020-204	Total/NA	Water	2320B-2011	
MB 410-62152/74	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-62152/75	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 68067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-18906-1	GW006-204	Total/NA	Water	353.2	
410-18906-2	GW014-204	Total/NA	Water	353.2	
410-18906-3	GW014-604	Total/NA	Water	353.2	
410-18906-4	GW018-204	Total/NA	Water	353.2	
410-18906-5	GW020-204	Total/NA	Water	353.2	
MB 410-68067/20	Method Blank	Total/NA	Water	353.2	
LCS 410-68067/21	Lab Control Sample	Total/NA	Water	353.2	

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW006-204

Lab Sample ID: 410-18906-1

Date Collected: 10/29/20 16:32

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 20:14	UCB5	ELLE
Total/NA	Prep	8011			62600	11/05/20 12:00	B3RR	ELLE
Total/NA	Analysis	8011		1	63862	11/09/20 19:21	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67313	11/18/20 07:34	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:26	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 19:24	UCIG	ELLE
Total Recoverable	Prep	3005A			60691	10/31/20 10:06	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	68078	11/19/20 09:55	MDP5	ELLE
Total Recoverable	Prep	3005A			60691	10/31/20 10:06	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61278	11/02/20 20:13	UCIG	ELLE
Total/NA	Prep	3005A			60816	11/02/20 03:39	UJL8	ELLE
Total/NA	Analysis	6020A		1	62398	11/04/20 18:04	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/04/20 02:20	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:14	KGQ6	ELLE

Client Sample ID: GW014-204

Lab Sample ID: 410-18906-2

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		10	64962	11/12/20 06:40	UCB5	ELLE
Total/NA	Analysis	8260C DOD	DL	100	64962	11/12/20 07:02	UCB5	ELLE
Total/NA	Prep	8011			62600	11/05/20 12:00	B3RR	ELLE
Total/NA	Analysis	8011		10	64429	11/10/20 20:43	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67313	11/18/20 08:42	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	67313	11/18/20 08:59	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:30	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 19:28	UCIG	ELLE
Total Recoverable	Prep	3005A			60691	10/31/20 10:06	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61278	11/02/20 20:23	UCIG	ELLE
Total/NA	Prep	3005A			60816	11/02/20 03:39	UJL8	ELLE
Total/NA	Analysis	6020A		1	62398	11/04/20 18:06	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/04/20 02:02	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:15	KGQ6	ELLE

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Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW014-604

Lab Sample ID: 410-18906-3

Date Collected: 10/29/20 14:36

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		50	64962	11/12/20 07:24	UCB5	ELLE
Total/NA	Prep	8011			62600	11/05/20 12:00	B3RR	ELLE
Total/NA	Analysis	8011		10	64429	11/10/20 21:00	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67313	11/18/20 09:16	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	67313	11/18/20 09:34	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:40	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 19:38	UCIG	ELLE
Total Recoverable	Prep	3005A			60691	10/31/20 10:06	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61278	11/02/20 20:27	UCIG	ELLE
Total/NA	Prep	3005A			60816	11/02/20 03:39	UJL8	ELLE
Total/NA	Analysis	6020A		1	62398	11/04/20 18:07	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/04/20 01:55	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:16	KGQ6	ELLE

Client Sample ID: GW018-204

Lab Sample ID: 410-18906-4

Date Collected: 10/28/20 14:33

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 19:30	UCB5	ELLE
Total/NA	Prep	8011			62600	11/05/20 12:00	B3RR	ELLE
Total/NA	Analysis	8011		1	63862	11/09/20 20:11	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67313	11/18/20 09:51	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	67313	11/18/20 10:08	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:33	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 19:31	UCIG	ELLE
Total Recoverable	Prep	3005A			60691	10/31/20 10:06	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61278	11/02/20 20:31	UCIG	ELLE
Total/NA	Prep	3005A			60816	11/02/20 03:39	UJL8	ELLE
Total/NA	Analysis	6020A		1	62398	11/04/20 18:09	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/04/20 02:35	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:18	KGQ6	ELLE

Client Sample ID: GW020-204

Lab Sample ID: 410-18906-5

Date Collected: 10/29/20 11:12

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 20:36	UCB5	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Client Sample ID: GW020-204

Lab Sample ID: 410-18906-5

Date Collected: 10/29/20 11:12

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			62600	11/05/20 12:00	B3RR	ELLE
Total/NA	Analysis	8011		1	63862	11/09/20 20:28	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67313	11/18/20 10:25	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	67313	11/18/20 10:42	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:37	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 19:35	UCIG	ELLE
Total Recoverable	Prep	3005A			60691	10/31/20 10:06	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61278	11/02/20 20:34	UCIG	ELLE
Total/NA	Prep	3005A			60816	11/02/20 03:39	UJL8	ELLE
Total/NA	Analysis	6020A		1	62398	11/04/20 18:11	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/04/20 02:27	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:19	KGQ6	ELLE

Client Sample ID: ER204-03

Lab Sample ID: 410-18906-6

Date Collected: 10/28/20 12:08

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 19:52	UCB5	ELLE
Total/NA	Prep	8011			62600	11/05/20 12:00	B3RR	ELLE
Total/NA	Analysis	8011		1	63862	11/09/20 20:45	AC3T	ELLE
Total Recoverable	Prep	3005A			60691	10/31/20 10:06	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61278	11/02/20 20:38	UCIG	ELLE
Total/NA	Prep	3005A			60816	11/02/20 03:39	UJL8	ELLE
Total/NA	Analysis	6020A		1	62398	11/04/20 18:12	V5SW	ELLE

Client Sample ID: TB204-66

Lab Sample ID: 410-18906-7

Date Collected: 10/29/20 09:31

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 15:27	UCB5	ELLE
Total/NA	Prep	8011			62600	11/05/20 12:00	B3RR	ELLE
Total/NA	Analysis	8011		1	63862	11/09/20 21:02	AC3T	ELLE

Client Sample ID: TB204-67

Lab Sample ID: 410-18906-8

Date Collected: 10/29/20 09:31

Matrix: Water

Date Received: 10/30/20 10:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 15:05	UCB5	ELLE
Total/NA	Prep	8011			62600	11/05/20 12:00	B3RR	ELLE
Total/NA	Analysis	8011		1	63862	11/09/20 21:18	AC3T	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-18906-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-18906-1	GW006-204	Water	10/29/20 16:32	10/30/20 10:42	
410-18906-2	GW014-204	Water	10/29/20 14:36	10/30/20 10:42	
410-18906-3	GW014-604	Water	10/29/20 14:36	10/30/20 10:42	
410-18906-4	GW018-204	Water	10/28/20 14:33	10/30/20 10:42	
410-18906-5	GW020-204	Water	10/29/20 11:12	10/30/20 10:42	
410-18906-6	ER204-03	Water	10/28/20 12:08	10/30/20 10:42	
410-18906-7	TB204-66	Water	10/29/20 09:31	10/30/20 10:42	
410-18906-8	TB204-67	Water	10/29/20 09:31	10/30/20 10:42	

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Eurofins Lancaster Laboratories Env, LLC



410-18906 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-006-204			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaeast.com EA Amanda Smith: asmith@eaeast.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaeast.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)					
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258									
				ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(BTEX)	EDS	Total (As, Pb, Cd, Ni, Mn)	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity/Carbon Dioxide	(SMA23208)	(RSC-175)	Methane	(RSC-175)
1	GW006-204	10-29-2020	1632	10	3	—	2	1	1*	1	1	1	1				
2																	
3																	
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																	
Pump SN: 1808-402 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk DATE: 10-29-2020 TIME: 1900 COURIER AND SHIPPING NUMBER: FedEx 7719 3999 1705 RECEIVED BY: Nicole Ruff DATE: 10/30/20 TIME: 1636																	

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-014-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)						
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (3532)	Alkalinity (Total Carbonate, and Bicarbonate) (3532)	Carbon Dioxide (SM2320B)	(RSK-175) Methane (RSK-175)	COMMENTS
1	GW014-204	10-29-2020	1436	10	3	—	—	2	1	1*	1	1	1			
2	GW014-604	10-29-2020	1436	10	3	—	—	2	1	1*	1	1	1			
3																
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5																
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COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): <i>GB</i> Pump SN: 1808-402 <i>G. Beggs</i> Amy Rosebrough TB204-67 RELINQUISHED BY: _____ DATE _____ TIME _____ Printed Name and Signature: <i>G. Beggs</i> Printed Name and Signature: Amy Rosebrough Printed Name and Signature: _____ COURIER AND SHIPPING NUMBER: FedEx 7719 3999 1705 RECEIVED BY: _____ DATE _____ TIME _____ Printed Name and Signature: _____ Printed Name and Signature: _____ Printed Name and Signature: <i>Nicole Reiff</i> 10/30/20 1036																

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-018-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)					
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED3 (8011)	Total (As, Pb, Cd, Ni, Mn) (6020A/6010C)	Disolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (333.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW018-204	10-28-2020	1433	10	3	—	2	1	1*	1	1	1			
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1808-402 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk <i>[Signature]</i> DATE: 10-29-2020 TIME: 1700 COURIER AND SHIPPING NUMBER: FedEx 7719 3999 1690 RECEIVED BY: Nicole Ruff <i>[Signature]</i> DATE: 10/30/20 TIME: 1042															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No. (410) 584-7000
Fax No. (410) 771-1625

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-ER204-03

YEAR: 2020
QUARTER: 4

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	(B260C) VOCs	(B260C) BTEX	(B260C) BTEXN	(B260C) EDB	(B011) Total As, Pb, Cu, K, Na, Mg	(B010C) Dissolved Fe, Mn	(B010C) Chloride, bromide, sulfate	(300.0) Nitrate-Nitrite	(353.2) Alkalinity (Total Carbonate, and Bicarbonate)			
1	ER204-03	10-28-2020	1208	6	3			2	1							
2																
3																
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Please add Fe and Mn to total metals analysis.

Associated with: GWO18-204, GWO20-204, GWO22-204, GWO14-604, GWO79-204, GWO76-204, GWO01-204, GWO06-204, TB204-66

SAMPLER(S): D. Schmeelk

COURIER AND SHIPPING NUMBER: Fed Ex 7719 3999 1690

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
D. Schmeelk	10-28-2020	1700			

Nicole Ruff WR 10/30/20 1042

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER <u>5</u>															
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Leland: <u>tland@eas.com</u> EA Amelia Smith: <u>asmith@eas.com</u> EA		YEAR: 2020															
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower <u>KayHower@eurofinsUS.com</u> Eurofins 1 (717) 556-7258		FAX AND MAIL REPORTS/EDD TO: Pam Moss: <u>pmoss@eas.com</u> EA		QUARTER: 4															
				ANALYSIS REQUIRED (Specify number of bottles)																			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED9 (8260C)	Total As, Pb, Cu, Cd, K, Na, Mg (8011)	Dissolved Fe, Mn (8020A, 8010C)	Chloride, bromide, sulfate (8010C)	Nitrate-Nitrite (300.0)	Ammonia (300.0)	Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS									
1	TB204-66	10-29-2020	0931	4	2		2																
2																							
3																							
4																							
5																							
Associated with: GW020-204 GW018-204 ER204-03																							
SAMPLER(S): <u>D. Schmeelk</u>				COURIER AND SHIPPING NUMBER: <u>FedEx 7719 3999 1690</u>																			
REINQUISHED BY:				DATE				TIME				RECEIVED BY:				DATE				TIME			
Printed Name and Signature:												Printed Name and Signature:											
<u>D. Schmeelk</u>				10-29-2020				1700															
Printed Name and Signature:												Printed Name and Signature:											
Printed Name and Signature:												Printed Name and Signature:											
												<u>Nicole Reiff</u>				10/30/20 1042							

EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1425		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-67			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Leland: tleland@east.com EA Amanda Smith: amsmith@east.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA				QUARTER: 4			
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	BTEXN	EDB	(B011)	Total As, Pb, Cu, Cd, Ni, Mg	Dissolved Fe, Mn	Chloride, bromide, sulfate	Nitrate-Nitrite	Alkalinity (Total Carbonate and Bicarbonate)	COMMENTS
1	TB204-67	10-29-2020	0931	4	2			2							
2															
3															
4															
5															
Associated with: GW014-602-604 GW014-204 GW006-204															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7719 3999 1705											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schmeelk				10-29-2020		1900		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Nicole Reiff				10/30/20		1036	

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-18906-1

Login Number: 18906**List Number: 1****Creator: Reiff, Nicole L****List Source: Eurofins Lancaster Laboratories Env**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-19107-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
11/24/2020 1:32:27 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy

Project Manager I

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Job ID: 410-19107-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-19107-1

Receipt

The samples were received on 10/31/2020 10:10 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0° C and 1.9° C.

GC/MS VOA

Method 8260C DOD: The response for Acetone in the initial calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-64224. Due to the marginal nature of the outlier(s), the data are reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid on analytical batch 410-64224: TB204-69 (410-19107-1), GW076-204 (410-19107-2), GW076-604 (410-19107-3), TB204-68 (410-19107-4), GW079-204 (410-19107-5) and GW001-204 (410-19107-6). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium. However, the samples were preserved in accordance with the project QAPP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

Method 8011: The continuing calibration verification (CCV) associated with batch 410-63943 recovered above the upper control limit for Ethylene Dibromide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8011: The following samples were diluted due to the nature of the sample matrix: GW076-204 (410-19107-2) and GW076-604 (410-19107-3). Elevated reporting limits (RLs) are provided.

Method 8011: The 1,1,2,2-Tetrachloroethane surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: GW079-204 (410-19107-5). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: TB204-69

Lab Sample ID: 410-19107-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.63	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

Client Sample ID: GW076-204

Lab Sample ID: 410-19107-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	47		5.0	2.0	1.0	ug/L	1		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	11		5.0	1.0	0.30	ug/L	1		8260C DOD	Total/NA
2-Butanone	9.9	J M	10	1.0	0.30	ug/L	1		8260C DOD	Total/NA
2-Hexanone	400		10	1.0	0.30	ug/L	1		8260C DOD	Total/NA
4-Methyl-2-pentanone	220		10	1.0	0.50	ug/L	1		8260C DOD	Total/NA
Acetone	53	Q M	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Benzene	16		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylbenzene	67		1.0	0.80	0.40	ug/L	1		8260C DOD	Total/NA
Isopropylbenzene	13		5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
m&p-Xylene	130		5.0	2.0	1.0	ug/L	1		8260C DOD	Total/NA
Methyl tertiary butyl ether	0.28	J M	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Naphthalene	20		5.0	2.0	1.0	ug/L	1		8260C DOD	Total/NA
n-Butylbenzene	1.9	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
N-Propylbenzene	13		5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
o-Xylene	17		1.0	0.80	0.40	ug/L	1		8260C DOD	Total/NA
p-Isopropyltoluene	3.3	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
sec-Butylbenzene	3.7	J	5.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Toluene	9.8		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Xylenes, Total	150		6.0	2.0	1.4	ug/L	1		8260C DOD	Total/NA
Bromide	1.6	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	28	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	170	B	0.20	0.15	0.096	mg/L	1		6010C	Total Recoverable
Magnesium	25	B	0.10	0.075	0.040	mg/L	1		6010C	Total Recoverable
Potassium	4.3		0.50	0.38	0.20	mg/L	1		6010C	Total Recoverable
Sodium	39		1.0	0.50	0.24	mg/L	1		6010C	Total Recoverable
Iron	5.8		0.21	0.10	0.041	mg/L	1		6010C	Dissolved
Manganese	4.3		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.00095	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00057		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	510		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	510	J1	8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW076-604

Lab Sample ID: 410-19107-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	47		5.0	2.0	1.0	ug/L	1		8260C DOD	Total/NA
1,3,5-Trimethylbenzene	11		5.0	1.0	0.30	ug/L	1		8260C DOD	Total/NA
2-Butanone	10	M	10	1.0	0.30	ug/L	1		8260C DOD	Total/NA
2-Hexanone	410		10	1.0	0.30	ug/L	1		8260C DOD	Total/NA
4-Methyl-2-pentanone	220		10	1.0	0.50	ug/L	1		8260C DOD	Total/NA
Acetone	48	Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Benzene	17		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW076-604 (Continued)

Lab Sample ID: 410-19107-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Ethylbenzene	68		1.0	0.80	0.40	ug/L	1			8260C DOD	Total/NA
Isopropylbenzene	13		5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
m&p-Xylene	130		5.0	2.0	1.0	ug/L	1			8260C DOD	Total/NA
Methyl tertiary butyl ether	0.27	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Naphthalene	20		5.0	2.0	1.0	ug/L	1			8260C DOD	Total/NA
n-Butylbenzene	1.8	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
N-Propylbenzene	14		5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
o-Xylene	17		1.0	0.80	0.40	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	3.2	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	3.6	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Toluene	10		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Xylenes, Total	150		6.0	2.0	1.4	ug/L	1			8260C DOD	Total/NA
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	28	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	2.2	J D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	170	B	0.20	0.15	0.096	mg/L	1			6010C	Total
Magnesium	24	B	0.10	0.075	0.040	mg/L	1			6010C	Recoverable Total
Potassium	4.2		0.50	0.38	0.20	mg/L	1			6010C	Recoverable Total
Sodium	38		1.0	0.50	0.24	mg/L	1			6010C	Recoverable Total
Iron	5.8		0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	4.3		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.00078	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00053		0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	500		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	500		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: TB204-68

Lab Sample ID: 410-19107-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Toluene	0.62	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA

Client Sample ID: GW079-204

Lab Sample ID: 410-19107-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	100	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
1,3,5-Trimethylbenzene	23	J D	25	5.0	1.5	ug/L	5			8260C DOD	Total/NA
4-Methyl-2-pentanone	11	J D	50	5.0	2.5	ug/L	5			8260C DOD	Total/NA
Acetone	13	J Q D	100	10	3.5	ug/L	5			8260C DOD	Total/NA
Chloroform	1.6	J D	5.0	2.5	1.0	ug/L	5			8260C DOD	Total/NA
Ethylbenzene	490	D	5.0	4.0	2.0	ug/L	5			8260C DOD	Total/NA
Isopropylbenzene	31	D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
m&p-Xylene	400	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
Naphthalene	44	D	25	10	5.0	ug/L	5			8260C DOD	Total/NA
n-Butylbenzene	1.7	J D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
N-Propylbenzene	23	J D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA
o-Xylene	26	D	5.0	4.0	2.0	ug/L	5			8260C DOD	Total/NA
p-Isopropyltoluene	8.9	J D	25	2.5	1.0	ug/L	5			8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW079-204 (Continued)

Lab Sample ID: 410-19107-5

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
sec-Butylbenzene	5.1	J D	25	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Toluene	340	D	5.0	2.5	1.0	ug/L	5		8260C DOD	Total/NA
Xylenes, Total	430		30	10	7.0	ug/L	5		8260C DOD	Total/NA
Benzene - DL	5400	D	50	25	10	ug/L	50		8260C DOD	Total/NA
Bromide	2.4	J D	2.5	2.0	1.3	mg/L	5		EPA 300.0 R2.1	Total/NA
Chloride	150	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Calcium	160	B	0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	29	B	0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	4.2		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	47		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Iron	5.1		0.21	0.10	0.041	mg/L	1		6010C	Recoverable Dissolved
Manganese	6.5		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Lead	0.0012		0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	420		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	420		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GW001-204

Lab Sample ID: 410-19107-6

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dibromoethane	0.44	J	1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
2-Butanone	0.82	J M	10	1.0	0.30	ug/L	1		8260C DOD	Total/NA
Acetone	6.1	J Q	20	2.0	0.70	ug/L	1		8260C DOD	Total/NA
Benzene	3.9		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Ethylbenzene	0.79	J	1.0	0.80	0.40	ug/L	1		8260C DOD	Total/NA
m&p-Xylene	2.8	J	5.0	2.0	1.0	ug/L	1		8260C DOD	Total/NA
o-Xylene	1.6		1.0	0.80	0.40	ug/L	1		8260C DOD	Total/NA
Toluene	20		1.0	0.50	0.20	ug/L	1		8260C DOD	Total/NA
Xylenes, Total	4.4	J	6.0	2.0	1.4	ug/L	1		8260C DOD	Total/NA
Ethylene Dibromide (1C)	0.65	D	0.15	0.097	0.049	ug/L	5		8011	Total/NA
Chloride	7.0	D	2.0	1.5	1.0	mg/L	5		EPA 300.0 R2.1	Total/NA
Sulfate	25	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	39	B	0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	5.7		0.10	0.075	0.040	mg/L	1		6010C	Recoverable Total
Potassium	2.4		0.50	0.38	0.20	mg/L	1		6010C	Recoverable Total
Sodium	22		1.0	0.50	0.24	mg/L	1		6010C	Recoverable Total
Manganese	0.0063	J	0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00013	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	120		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	120		8.0	6.0	2.6	mg/L	1		2320B-2011	Total/NA
Nitrate Nitrite as N	0.12		0.10	0.090	0.040	mg/L	1		353.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: TB204-69

Lab Sample ID: 410-19107-1

Date Collected: 10/30/20 16:16

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:21	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 14:21	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 14:21	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 14:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 14:21	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:21	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 14:21	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:21	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 14:21	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 14:21	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 14:21	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		11/10/20 14:21	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 14:21	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 14:21	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 14:21	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:21	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 14:21	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 14:21	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: TB204-69

Lab Sample ID: 410-19107-1

Date Collected: 10/30/20 16:16

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 14:21	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:21	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 14:21	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 14:21	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:21	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 14:21	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Toluene	0.63	J	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 14:21	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:21	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/10/20 14:21	1
4-Bromofluorobenzene (Surr)	95		85 - 114		11/10/20 14:21	1
Dibromofluoromethane (Surr)	99		80 - 119		11/10/20 14:21	1
Toluene-d8 (Surr)	98		89 - 112		11/10/20 14:21	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U Q	0.029	0.019	0.0095	ug/L		11/10/20 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	113	Q	46 - 136	11/06/20 23:59	11/10/20 02:51	1
1,1,2,2-Tetrachloroethane (2C)	103		46 - 136	11/06/20 23:59	11/10/20 02:51	1

Client Sample ID: GW076-204

Lab Sample ID: 410-19107-2

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 16:55	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,1,2-Trichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 16:55	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 16:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW076-204

Lab Sample ID: 410-19107-2

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	47		5.0	2.0	1.0	ug/L		11/10/20 16:55	1
1,2-Dibromo-3-Chloropropane	1.0	U M	5.0	1.0	0.30	ug/L		11/10/20 16:55	1
1,2-Dibromoethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		11/10/20 16:55	1
1,2-Dichloropropane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,3,5-Trimethylbenzene	11		5.0	1.0	0.30	ug/L		11/10/20 16:55	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 16:55	1
2-Butanone	9.9 J M		10	1.0	0.30	ug/L		11/10/20 16:55	1
2-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
2-Hexanone	400		10	1.0	0.30	ug/L		11/10/20 16:55	1
4-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
4-Methyl-2-pentanone	220		10	1.0	0.50	ug/L		11/10/20 16:55	1
Acetone	53 Q M		20	2.0	0.70	ug/L		11/10/20 16:55	1
Acrolein	5.0	U M	100	5.0	3.0	ug/L		11/10/20 16:55	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 16:55	1
Benzene	16		1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 16:55	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 16:55	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 16:55	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Chloroform	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Dibromochloromethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Dibromomethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Ethylbenzene	67		1.0	0.80	0.40	ug/L		11/10/20 16:55	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 16:55	1
Isopropylbenzene	13		5.0	0.50	0.20	ug/L		11/10/20 16:55	1
m&p-Xylene	130		5.0	2.0	1.0	ug/L		11/10/20 16:55	1
Methyl tertiary butyl ether	0.28 J M		1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 16:55	1
Naphthalene	20		5.0	2.0	1.0	ug/L		11/10/20 16:55	1
n-Butylbenzene	1.9 J		5.0	0.50	0.20	ug/L		11/10/20 16:55	1
N-Propylbenzene	13		5.0	0.50	0.20	ug/L		11/10/20 16:55	1
o-Xylene	17		1.0	0.80	0.40	ug/L		11/10/20 16:55	1
p-Isopropyltoluene	3.3 J		5.0	0.50	0.20	ug/L		11/10/20 16:55	1
sec-Butylbenzene	3.7 J		5.0	0.50	0.20	ug/L		11/10/20 16:55	1
Styrene	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 16:55	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW076-204

Lab Sample ID: 410-19107-2

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
tert-Butylbenzene	1.0	U M	5.0	1.0	0.30	ug/L		11/10/20 16:55	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Toluene	9.8		1.0	0.50	0.20	ug/L		11/10/20 16:55	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 16:55	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 16:55	1
Xylenes, Total	150		6.0	2.0	1.4	ug/L		11/10/20 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		81 - 118		11/10/20 16:55	1
4-Bromofluorobenzene (Surr)	105		85 - 114		11/10/20 16:55	1
Dibromofluoromethane (Surr)	98		80 - 119		11/10/20 16:55	1
Toluene-d8 (Surr)	100		89 - 112		11/10/20 16:55	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.096	U	0.14	0.096	0.048	ug/L		11/10/20 21:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	251	J1 M Q	46 - 136	11/06/20 23:59	11/10/20 21:17	5
1,1,2,2-Tetrachloroethane (2C)	382	J1 M Q	46 - 136	11/06/20 23:59	11/10/20 21:17	5

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.6	J D	2.5	2.0	1.3	mg/L		11/18/20 06:44	5
Chloride	28	D	2.0	1.5	1.0	mg/L		11/18/20 06:44	5
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/18/20 06:44	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	170	B	0.20	0.15	0.096	mg/L		11/03/20 05:39	1
Magnesium	25	B	0.10	0.075	0.040	mg/L		11/03/20 05:39	1
Potassium	4.3		0.50	0.38	0.20	mg/L		11/03/20 05:39	1
Sodium	39		1.0	0.50	0.24	mg/L		11/03/20 05:39	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	5.8		0.21	0.10	0.041	mg/L		11/03/20 18:56	1
Manganese	4.3		0.010	0.0052	0.0031	mg/L		11/10/20 09:05	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00095	J	0.0020	0.0016	0.00068	mg/L		11/11/20 10:48	1
Lead	0.00057		0.00050	0.00025	0.000071	mg/L		11/11/20 10:48	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	510		8.0	6.0	2.6	mg/L		11/03/20 22:06	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW076-204

Lab Sample ID: 410-19107-2

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

General Chemistry (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/03/20 22:06	1
Total Alkalinity as CaCO₃ to pH 4.5	510	J1	8.0	6.0	2.6	mg/L		11/03/20 22:06	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:20	1

Client Sample ID: GW076-604

Lab Sample ID: 410-19107-3

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 17:18	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,1,2-Trichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 17:18	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 17:18	1
1,2,4-Trimethylbenzene	47		5.0	2.0	1.0	ug/L		11/10/20 17:18	1
1,2-Dibromo-3-Chloropropane	1.0	U M	5.0	1.0	0.30	ug/L		11/10/20 17:18	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,2-Dichloroethane	0.50	U M	1.0	0.50	0.30	ug/L		11/10/20 17:18	1
1,2-Dichloropropane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,3,5-Trimethylbenzene	11		5.0	1.0	0.30	ug/L		11/10/20 17:18	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 17:18	1
2-Butanone	10	M	10	1.0	0.30	ug/L		11/10/20 17:18	1
2-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
2-Hexanone	410		10	1.0	0.30	ug/L		11/10/20 17:18	1
4-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
4-Methyl-2-pentanone	220		10	1.0	0.50	ug/L		11/10/20 17:18	1
Acetone	48	Q	20	2.0	0.70	ug/L		11/10/20 17:18	1
Acrolein	5.0	U M	100	5.0	3.0	ug/L		11/10/20 17:18	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 17:18	1
Benzene	17		1.0	0.50	0.20	ug/L		11/10/20 17:18	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 17:18	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 17:18	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:18	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:18	1
Chloroform	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 17:18	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW076-604

Lab Sample ID: 410-19107-3

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
cis-1,3-Dichloropropene	0.50	U M	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Dibromochloromethane	0.50	U M	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Ethylbenzene	68		1.0	0.80	0.40	ug/L	—	11/10/20 17:18	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L	—	11/10/20 17:18	1
Isopropylbenzene	13		5.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
m&p-Xylene	130		5.0	2.0	1.0	ug/L	—	11/10/20 17:18	1
Methyl tertiary butyl ether	0.27	J	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L	—	11/10/20 17:18	1
Naphthalene	20		5.0	2.0	1.0	ug/L	—	11/10/20 17:18	1
n-Butylbenzene	1.8	J	5.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
N-Propylbenzene	14		5.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
o-Xylene	17		1.0	0.80	0.40	ug/L	—	11/10/20 17:18	1
p-Isopropyltoluene	3.2	J	5.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
sec-Butylbenzene	3.6	J	5.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Styrene	0.50	U M	5.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	11/10/20 17:18	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Toluene	10		1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	11/10/20 17:18	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:18	1
Xylenes, Total	150		6.0	2.0	1.4	ug/L	—	11/10/20 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/10/20 17:18	1
4-Bromofluorobenzene (Surr)	104		85 - 114		11/10/20 17:18	1
Dibromofluoromethane (Surr)	97		80 - 119		11/10/20 17:18	1
Toluene-d8 (Surr)	102		89 - 112		11/10/20 17:18	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.096	U	0.14	0.096	0.048	ug/L	—	11/10/20 21:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	254	M Q	46 - 136	11/06/20 23:59	11/10/20 21:34	5
1,1,2,2-Tetrachloroethane (2C)	342	M Q	46 - 136	11/06/20 23:59	11/10/20 21:34	5

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	1.5	J D	2.5	2.0	1.3	mg/L	—	11/18/20 07:20	5
Chloride	28	D	2.0	1.5	1.0	mg/L	—	11/18/20 07:20	5
Sulfate	2.2	J D	5.0	4.5	1.5	mg/L	—	11/18/20 07:20	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW076-604

Lab Sample ID: 410-19107-3

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	170	B	0.20	0.15	0.096	mg/L		11/03/20 05:52	1
Magnesium	24	B	0.10	0.075	0.040	mg/L		11/03/20 05:52	1
Potassium	4.2		0.50	0.38	0.20	mg/L		11/03/20 05:52	1
Sodium	38		1.0	0.50	0.24	mg/L		11/03/20 05:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	5.8		0.21	0.10	0.041	mg/L		11/03/20 19:17	1
Manganese	4.3		0.010	0.0052	0.0031	mg/L		11/10/20 09:12	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.00078	J	0.0020	0.0016	0.00068	mg/L		11/10/20 20:03	1
Lead	0.00053		0.00050	0.00025	0.000071	mg/L		11/11/20 10:42	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	500		8.0	6.0	2.6	mg/L		11/03/20 22:28	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/03/20 22:28	1
Total Alkalinity as CaCO ₃ to pH 4.5	500		8.0	6.0	2.6	mg/L		11/03/20 22:28	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:23	1

Client Sample ID: TB204-68

Lab Sample ID: 410-19107-4

Date Collected: 10/30/20 16:16

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:43	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 14:43	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 14:43	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 14:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 14:43	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:43	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 14:43	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:43	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 14:43	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: TB204-68

Lab Sample ID: 410-19107-4

Date Collected: 10/30/20 16:16

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 14:43	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 14:43	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		11/10/20 14:43	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 14:43	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 14:43	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 14:43	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:43	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 14:43	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 14:43	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 14:43	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 14:43	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 14:43	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 14:43	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 14:43	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 14:43	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Toluene	0.62	J	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 14:43	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 14:43	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118					11/10/20 14:43	1
4-Bromofluorobenzene (Surr)	95		85 - 114					11/10/20 14:43	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: TB204-68

Lab Sample ID: 410-19107-4

Date Collected: 10/30/20 16:16

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 119		11/10/20 14:43	1
Toluene-d8 (Surr)	97		89 - 112		11/10/20 14:43	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U Q	0.028	0.019	0.0095	ug/L		11/10/20 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	123	Q	46 - 136	11/06/20 23:59	11/10/20 03:41	1
1,1,2,2-Tetrachloroethane (2C)	110		46 - 136	11/06/20 23:59	11/10/20 03:41	1

Client Sample ID: GW079-204

Lab Sample ID: 410-19107-5

Date Collected: 10/30/20 14:42

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
1,1,1-Trichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/10/20 20:58	5
1,1,2,2-Tetrachloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
1,1,2-Trichloroethane	2.5	U M	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
1,1-Dichloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
1,1-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
1,1-Dichloropropene	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
1,2,3-Trichlorobenzene	5.0	U	25	5.0	2.0	ug/L		11/10/20 20:58	5
1,2,3-Trichloropropane	2.5	U M	25	2.5	1.0	ug/L		11/10/20 20:58	5
1,2,4-Trichlorobenzene	5.0	U	25	5.0	1.5	ug/L		11/10/20 20:58	5
1,2,4-Trimethylbenzene	100	D	25	10	5.0	ug/L		11/10/20 20:58	5
1,2-Dibromo-3-Chloropropane	5.0	U	25	5.0	1.5	ug/L		11/10/20 20:58	5
1,2-Dibromoethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
1,2-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
1,2-Dichloroethane	2.5	U	5.0	2.5	1.5	ug/L		11/10/20 20:58	5
1,2-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
1,3,5-Trimethylbenzene	23	J D	25	5.0	1.5	ug/L		11/10/20 20:58	5
1,3-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
1,3-Dichloropropane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
1,4-Dichlorobenzene	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
2,2-Dichloropropane	2.5	U	5.0	2.5	1.5	ug/L		11/10/20 20:58	5
2-Butanone	5.0	U	50	5.0	1.5	ug/L		11/10/20 20:58	5
2-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
2-Hexanone	5.0	U M	50	5.0	1.5	ug/L		11/10/20 20:58	5
4-Chlorotoluene	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
4-Methyl-2-pentanone	11	J D	50	5.0	2.5	ug/L		11/10/20 20:58	5
Acetone	13	J Q D	100	10	3.5	ug/L		11/10/20 20:58	5
Acrolein	25	U	500	25	15	ug/L		11/10/20 20:58	5
Acrylonitrile	5.0	U	100	5.0	1.5	ug/L		11/10/20 20:58	5
Bromobenzene	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
Bromochloromethane	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
Bromodichloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Bromoform	10	U	20	10	5.0	ug/L		11/10/20 20:58	5

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW079-204

Lab Sample ID: 410-19107-5

Date Collected: 10/30/20 14:42

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromomethane	2.5	U	5.0	2.5	1.5	ug/L		11/10/20 20:58	5
Carbon disulfide	2.5	U	25	2.5	1.0	ug/L		11/10/20 20:58	5
Carbon tetrachloride	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Chlorobenzene	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Chloroethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Chloroform	1.6	J D	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Chloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
cis-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
cis-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Dibromochloromethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Dibromomethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Dichlorodifluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Ethylbenzene	490	D	5.0	4.0	2.0	ug/L		11/10/20 20:58	5
Hexachlorobutadiene	20	U	25	20	10	ug/L		11/10/20 20:58	5
Isopropylbenzene	31	D	25	2.5	1.0	ug/L		11/10/20 20:58	5
m&p-Xylene	400	D	25	10	5.0	ug/L		11/10/20 20:58	5
Methyl tertiary butyl ether	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Methylene Chloride	2.5	U	5.0	2.5	1.5	ug/L		11/10/20 20:58	5
Naphthalene	44	D	25	10	5.0	ug/L		11/10/20 20:58	5
n-Butylbenzene	1.7	J D	25	2.5	1.0	ug/L		11/10/20 20:58	5
N-Propylbenzene	23	J D	25	2.5	1.0	ug/L		11/10/20 20:58	5
o-Xylene	26	D	5.0	4.0	2.0	ug/L		11/10/20 20:58	5
p-Isopropyltoluene	8.9	J D	25	2.5	1.0	ug/L		11/10/20 20:58	5
sec-Butylbenzene	5.1	J D	25	2.5	1.0	ug/L		11/10/20 20:58	5
Styrene	2.5	U M	25	2.5	1.0	ug/L		11/10/20 20:58	5
tert-Butylbenzene	5.0	U	25	5.0	1.5	ug/L		11/10/20 20:58	5
Tetrachloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Toluene	340	D	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
trans-1,2-Dichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
trans-1,3-Dichloropropene	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Trichloroethene	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Trichlorofluoromethane	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Vinyl acetate	10	U	50	10	3.5	ug/L		11/10/20 20:58	5
Vinyl chloride	2.5	U	5.0	2.5	1.0	ug/L		11/10/20 20:58	5
Xylenes, Total	430		30	10	7.0	ug/L		11/10/20 20:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/10/20 20:58	5
4-Bromofluorobenzene (Surr)	99		85 - 114		11/10/20 20:58	5
Dibromofluoromethane (Surr)	96		80 - 119		11/10/20 20:58	5
Toluene-d8 (Surr)	99		89 - 112		11/10/20 20:58	5

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Benzene	5400	D	50	25	10	ug/L		11/10/20 21:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		11/10/20 21:20	50
4-Bromofluorobenzene (Surr)	98		85 - 114		11/10/20 21:20	50
Dibromofluoromethane (Surr)	98		80 - 119		11/10/20 21:20	50

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW079-204

Lab Sample ID: 410-19107-5

Date Collected: 10/30/20 14:42

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		89 - 112		11/10/20 21:20	50

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.019	U	0.028	0.019	0.0095	ug/L		11/10/20 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	139	Q	46 - 136	11/06/20 23:59	11/10/20 21:51	1
1,1,2,2-Tetrachloroethane (2C)	124		46 - 136	11/06/20 23:59	11/10/20 21:51	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.4	J D	2.5	2.0	1.3	mg/L		11/18/20 07:57	5
Chloride	150	D	20	15	10	mg/L		11/18/20 08:51	50
Sulfate	4.5	U	5.0	4.5	1.5	mg/L		11/18/20 07:57	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	160	B	0.20	0.15	0.096	mg/L		11/03/20 05:46	1
Magnesium	29	B	0.10	0.075	0.040	mg/L		11/03/20 05:46	1
Potassium	4.2		0.50	0.38	0.20	mg/L		11/03/20 05:46	1
Sodium	47		1.0	0.50	0.24	mg/L		11/03/20 05:46	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	5.1		0.21	0.10	0.041	mg/L		11/03/20 19:21	1
Manganese	6.5		0.010	0.0052	0.0031	mg/L		11/10/20 09:22	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U Q	0.0020	0.0016	0.00068	mg/L		11/10/20 20:09	1
Lead	0.0012		0.00050	0.00025	0.000071	mg/L		11/11/20 10:47	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	420		8.0	6.0	2.6	mg/L		11/03/20 22:43	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/03/20 22:43	1
Total Alkalinity as CaCO ₃ to pH 4.5	420		8.0	6.0	2.6	mg/L		11/03/20 22:43	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		11/18/20 16:25	1

Client Sample ID: GW001-204

Lab Sample ID: 410-19107-6

Date Collected: 10/30/20 12:03

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 17:40	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,1,2-Trichloroethane	0.50	U M	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW001-204

Lab Sample ID: 410-19107-6

Date Collected: 10/30/20 12:03

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 17:40	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 17:40	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 17:40	1
1,2-Dibromo-3-Chloropropane	1.0	U M	5.0	1.0	0.30	ug/L		11/10/20 17:40	1
1,2-Dibromoethane	0.44	J	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 17:40	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 17:40	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 17:40	1
2-Butanone	0.82	J M	10	1.0	0.30	ug/L		11/10/20 17:40	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		11/10/20 17:40	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 17:40	1
Acetone	6.1	J Q	20	2.0	0.70	ug/L		11/10/20 17:40	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 17:40	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 17:40	1
Benzene	3.9		1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 17:40	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 17:40	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Ethylbenzene	0.79	J	1.0	0.80	0.40	ug/L		11/10/20 17:40	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 17:40	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1
m&p-Xylene	2.8	J	5.0	2.0	1.0	ug/L		11/10/20 17:40	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 17:40	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 17:40	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 17:40	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 17:40	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW001-204

Lab Sample ID: 410-19107-6

Date Collected: 10/30/20 12:03

Matrix: Water

Date Received: 10/31/20 10:10

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
o-Xylene	1.6		1.0	0.80	0.40	ug/L	—	11/10/20 17:40	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L	—	11/10/20 17:40	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
Toluene	20		1.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L	—	11/10/20 17:40	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L	—	11/10/20 17:40	1
Xylenes, Total	4.4	J	6.0	2.0	1.4	ug/L	—	11/10/20 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		81 - 118		11/10/20 17:40	1
4-Bromofluorobenzene (Surr)	99		85 - 114		11/10/20 17:40	1
Dibromofluoromethane (Surr)	96		80 - 119		11/10/20 17:40	1
Toluene-d8 (Surr)	100		89 - 112		11/10/20 17:40	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.65	D	0.15	0.097	0.049	ug/L	—	11/10/20 22:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	133		46 - 136	11/06/20 23:59	11/10/20 22:08	5
1,1,2,2-Tetrachloroethane (2C)	127		46 - 136	11/06/20 23:59	11/10/20 22:08	5

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	11/18/20 09:09	5
Chloride	7.0	D	2.0	1.5	1.0	mg/L	—	11/18/20 09:09	5
Sulfate	25	D	5.0	4.5	1.5	mg/L	—	11/18/20 09:09	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	39	B	0.20	0.15	0.096	mg/L	—	11/03/20 05:36	1
Magnesium	5.7		0.10	0.075	0.040	mg/L	—	11/15/20 13:22	1
Potassium	2.4		0.50	0.38	0.20	mg/L	—	11/03/20 05:36	1
Sodium	22		1.0	0.50	0.24	mg/L	—	11/03/20 05:36	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L	—	11/03/20 19:07	1
Manganese	0.0063	J	0.010	0.0052	0.0031	mg/L	—	11/10/20 09:09	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0015	J	0.0020	0.0016	0.00068	mg/L	—	11/11/20 11:13	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW001-204

Lab Sample ID: 410-19107-6

Date Collected: 10/30/20 12:03

Matrix: Water

Date Received: 10/31/20 10:10

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Lead	0.00013	J	0.00050	0.00025	0.000071	mg/L		11/11/20 11:13	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	120		8.0	6.0	2.6	mg/L		11/03/20 22:57	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/03/20 22:57	1
Total Alkalinity as CaCO ₃ to pH 4.5	120		8.0	6.0	2.6	mg/L		11/03/20 22:57	1
Nitrate Nitrite as N	0.12		0.10	0.090	0.040	mg/L		11/18/20 16:26	1

Eurofins Lancaster Laboratories Env, LLC

Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-19107-1	TB204-69	99	95	99	98
410-19107-2	GW076-204	103	105	98	100
410-19107-3	GW076-604	99	104	97	102
410-19107-4	TB204-68	101	95	100	97
410-19107-5 - DL	GW079-204	99	98	98	98
410-19107-5	GW079-204	98	99	96	99
410-19107-6	GW001-204	96	99	96	100
LCS 410-64224/5	Lab Control Sample	98	99	97	100
LCS 410-64224/7	Lab Control Sample	99	99	98	100
LCSD 410-64224/6	Lab Control Sample Dup	98	99	99	101
LCSD 410-64224/8	Lab Control Sample Dup	99	96	97	99
MB 410-64224/10	Method Blank	98	96	98	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-19107-1	TB204-69	113 Q	103
410-19107-2	GW076-204	251 J1 M Q	382 J1 M Q
410-19107-3	GW076-604	254 M Q	342 M Q
410-19107-4	TB204-68	123 Q	110
410-19107-5	GW079-204	139 Q	124
410-19107-6	GW001-204	133	127
LCS 410-63224/2-A	Lab Control Sample	94	94
LCSD 410-63224/3-A	Lab Control Sample Dup	92	92
MB 410-63224/1-A	Method Blank	93	93

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-64224/10

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		11/10/20 13:59	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 13:59	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 13:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 13:59	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 13:59	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 13:59	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		11/10/20 13:59	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		11/10/20 13:59	1
Acetone	2.0	U	20	2.0	0.70	ug/L		11/10/20 13:59	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		11/10/20 13:59	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		11/10/20 13:59	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		11/10/20 13:59	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 13:59	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		11/10/20 13:59	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-64224/10

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 13:59	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		11/10/20 13:59	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		11/10/20 13:59	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		11/10/20 13:59	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		11/10/20 13:59	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		11/10/20 13:59	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		11/10/20 13:59	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		11/10/20 13:59	1
Xylenes, Total	2.0	U	6.0	2.0	1.4	ug/L		11/10/20 13:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		11/10/20 13:59	1
4-Bromofluorobenzene (Surr)	96		85 - 114		11/10/20 13:59	1
Dibromofluoromethane (Surr)	98		80 - 119		11/10/20 13:59	1
Toluene-d8 (Surr)	99		89 - 112		11/10/20 13:59	1

Lab Sample ID: LCS 410-64224/5

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/L		101	78 - 124
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	74 - 131
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		102	71 - 121
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	80 - 119
1,1-Dichloroethane	20.0	20.9		ug/L		105	77 - 125
1,1-Dichloroethene	20.0	21.8		ug/L		109	71 - 131
1,1-Dichloropropene	20.0	21.1		ug/L		105	79 - 125
1,2,3-Trichlorobenzene	20.0	19.8		ug/L		99	69 - 129
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	73 - 122
1,2,4-Trichlorobenzene	20.0	20.2		ug/L		101	69 - 130
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	20.4		ug/L		102	77 - 121
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 119
1,2-Dichloroethane	20.0	19.7		ug/L		99	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-64224/5

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	20.8		ug/L		104	78 - 122
1,3,5-Trimethylbenzene	20.0	21.4		ug/L		107	75 - 124
1,3-Dichlorobenzene	20.0	21.1		ug/L		105	80 - 119
1,3-Dichloropropane	20.0	20.1		ug/L		101	80 - 119
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	19.5		ug/L		97	60 - 139
2-Butanone	150	178		ug/L		119	56 - 143
2-Chlorotoluene	20.0	21.4		ug/L		107	79 - 122
2-Hexanone	100	121		ug/L		121	57 - 139
4-Chlorotoluene	20.0	21.0		ug/L		105	78 - 122
4-Methyl-2-pentanone	100	99.5		ug/L		99	67 - 130
Acetone	150	219		ug/L		146	39 - 160
Acrolein	150	157		ug/L		104	39 - 155
Acrylonitrile	100	97.9		ug/L		98	63 - 135
Benzene	20.0	20.8		ug/L		104	42 - 138
Bromobenzene	20.0	20.8		ug/L		104	80 - 120
Bromochloromethane	20.0	19.2		ug/L		96	78 - 123
Bromodichloromethane	20.0	20.4		ug/L		102	79 - 125
Bromoform	20.0	17.9		ug/L		89	66 - 130
Bromomethane	20.0	21.7		ug/L		108	53 - 141
Carbon disulfide	20.0	21.8		ug/L		109	64 - 133
Carbon tetrachloride	20.0	18.7		ug/L		94	72 - 136
Chlorobenzene	20.0	21.0		ug/L		105	82 - 118
Chloroethane	20.0	19.8		ug/L		99	60 - 138
Chloroform	20.0	20.6		ug/L		103	79 - 124
Chloromethane	20.0	23.1		ug/L		115	50 - 139
cis-1,2-Dichloroethene	20.0	22.1		ug/L		111	78 - 123
cis-1,3-Dichloropropene	20.0	20.3		ug/L		102	75 - 124
Dibromochloromethane	20.0	18.9		ug/L		94	74 - 126
Dibromomethane	20.0	20.2		ug/L		101	79 - 123
Dichlorodifluoromethane	20.0	23.1		ug/L		115	32 - 152
Ethylbenzene	20.0	21.4		ug/L		107	79 - 121
Hexachlorobutadiene	20.0	18.2		ug/L		91	66 - 134
Isopropylbenzene	20.0	20.6		ug/L		103	72 - 131
m&p-Xylene	40.0	43.8		ug/L		110	80 - 121
Methyl tertiary butyl ether	20.0	19.6		ug/L		98	71 - 124
Methylene Chloride	20.0	21.2		ug/L		106	74 - 124
Naphthalene	20.0	20.0		ug/L		100	61 - 128
n-Butylbenzene	20.0	20.5		ug/L		103	75 - 128
N-Propylbenzene	20.0	21.8		ug/L		109	76 - 126
o-Xylene	20.0	21.6		ug/L		108	78 - 122
p-Isopropyltoluene	20.0	21.6		ug/L		108	77 - 127
sec-Butylbenzene	20.0	20.3		ug/L		102	77 - 126
Styrene	20.0	20.2		ug/L		101	78 - 123
tert-Butylbenzene	20.0	19.5		ug/L		97	78 - 124
Tetrachloroethene	20.0	18.6		ug/L		93	74 - 129
Toluene	20.0	21.0		ug/L		105	80 - 121
trans-1,2-Dichloroethene	20.0	21.3		ug/L		107	75 - 124
trans-1,3-Dichloropropene	20.0	20.3		ug/L		102	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-64224/5

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.7		ug/L		104	79 - 123
Trichlorofluoromethane	20.0	20.0	M	ug/L		100	65 - 141
Vinyl chloride	20.0	23.4		ug/L		117	58 - 137
Xylenes, Total	60.0	65.4		ug/L		109	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCS 410-64224/7

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	115		ug/L		115	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	98		80 - 119
Toluene-d8 (Surr)	100		89 - 112

Lab Sample ID: LCSD 410-64224/6

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	20.0	21.0		ug/L		105	78 - 124	4	20
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	74 - 131	4	20
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	71 - 121	5	20
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	80 - 119	3	20
1,1-Dichloroethane	20.0	21.6		ug/L		108	77 - 125	3	20
1,1-Dichloroethene	20.0	22.2		ug/L		111	71 - 131	2	20
1,1-Dichloropropene	20.0	21.8		ug/L		109	79 - 125	3	20
1,2,3-Trichlorobenzene	20.0	20.8		ug/L		104	69 - 129	5	20
1,2,3-Trichloropropane	20.0	21.2		ug/L		106	73 - 122	6	20
1,2,4-Trichlorobenzene	20.0	21.0		ug/L		105	69 - 130	4	20
1,2,4-Trimethylbenzene	20.0	22.1		ug/L		111	76 - 124	4	20
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/L		101	62 - 128	6	20
1,2-Dibromoethane	20.0	21.0		ug/L		105	77 - 121	3	20
1,2-Dichlorobenzene	20.0	21.3		ug/L		107	80 - 119	3	20
1,2-Dichloroethane	20.0	20.5		ug/L		102	73 - 128	4	20
1,2-Dichloropropane	20.0	21.6		ug/L		108	78 - 122	4	20
1,3,5-Trimethylbenzene	20.0	22.4		ug/L		112	75 - 124	5	20
1,3-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 119	2	20
1,3-Dichloropropane	20.0	20.9		ug/L		104	80 - 119	4	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-64224/6

Matrix: Water

Analysis Batch: 64224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	79 - 118	4	20
2,2-Dichloropropane	20.0	20.3		ug/L		102	60 - 139	4	20
2-Butanone	150	177		ug/L		118	56 - 143	1	20
2-Chlorotoluene	20.0	22.2		ug/L		111	79 - 122	4	20
2-Hexanone	100	122		ug/L		122	57 - 139	1	20
4-Chlorotoluene	20.0	21.8		ug/L		109	78 - 122	4	20
4-Methyl-2-pentanone	100	103		ug/L		103	67 - 130	4	20
Acetone	150	205		ug/L		137	39 - 160	7	20
Acrolein	150	157		ug/L		105	39 - 155	0	20
Acrylonitrile	100	102		ug/L		102	63 - 135	4	20
Benzene	20.0	21.4		ug/L		107	42 - 138	3	20
Bromobenzene	20.0	21.6		ug/L		108	80 - 120	4	20
Bromochloromethane	20.0	19.3		ug/L		97	78 - 123	1	20
Bromodichloromethane	20.0	20.9		ug/L		105	79 - 125	2	20
Bromoform	20.0	18.5		ug/L		92	66 - 130	3	20
Bromomethane	20.0	22.6		ug/L		113	53 - 141	4	20
Carbon disulfide	20.0	22.7		ug/L		113	64 - 133	4	20
Carbon tetrachloride	20.0	19.2		ug/L		96	72 - 136	2	20
Chlorobenzene	20.0	21.6		ug/L		108	82 - 118	3	20
Chloroethane	20.0	20.9		ug/L		105	60 - 138	6	20
Chloroform	20.0	21.2		ug/L		106	79 - 124	3	20
Chloromethane	20.0	24.1		ug/L		121	50 - 139	4	20
cis-1,2-Dichloroethene	20.0	22.5		ug/L		112	78 - 123	2	20
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	75 - 124	3	20
Dibromochloromethane	20.0	19.5		ug/L		97	74 - 126	3	20
Dibromomethane	20.0	21.0		ug/L		105	79 - 123	4	20
Dichlorodifluoromethane	20.0	23.9		ug/L		120	32 - 152	4	20
Ethylbenzene	20.0	22.0		ug/L		110	79 - 121	3	20
Hexachlorobutadiene	20.0	19.2		ug/L		96	66 - 134	5	20
Isopropylbenzene	20.0	21.5		ug/L		108	72 - 131	4	20
m&p-Xylene	40.0	45.3		ug/L		113	80 - 121	3	20
Methyl tertiary butyl ether	20.0	20.1		ug/L		101	71 - 124	2	20
Methylene Chloride	20.0	21.9		ug/L		109	74 - 124	3	20
Naphthalene	20.0	21.2		ug/L		106	61 - 128	6	20
n-Butylbenzene	20.0	21.7		ug/L		108	75 - 128	5	20
N-Propylbenzene	20.0	22.8		ug/L		114	76 - 126	4	20
o-Xylene	20.0	22.4		ug/L		112	78 - 122	4	20
p-Isopropyltoluene	20.0	22.7		ug/L		114	77 - 127	5	20
sec-Butylbenzene	20.0	21.3		ug/L		107	77 - 126	5	20
Styrene	20.0	21.3		ug/L		106	78 - 123	5	20
tert-Butylbenzene	20.0	20.2		ug/L		101	78 - 124	4	20
Tetrachloroethene	20.0	18.7		ug/L		94	74 - 129	1	20
Toluene	20.0	21.8		ug/L		109	80 - 121	3	20
trans-1,2-Dichloroethene	20.0	21.9		ug/L		109	75 - 124	2	20
trans-1,3-Dichloropropene	20.0	21.0		ug/L		105	73 - 127	3	20
Trichloroethene	20.0	21.3		ug/L		107	79 - 123	3	20
Trichlorofluoromethane	20.0	20.5		ug/L		102	65 - 141	3	20
Vinyl chloride	20.0	24.7		ug/L		124	58 - 137	6	20
Xylenes, Total	60.0	67.7		ug/L		113	79 - 121	3	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		81 - 118
4-Bromofluorobenzene (Surr)	99		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	101		89 - 112

Lab Sample ID: LCSD 410-64224/8
Matrix: Water
Analysis Batch: 64224

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl acetate	100	117		ug/L		117	54 - 146	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	99		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-63224/1-A
Matrix: Water
Analysis Batch: 63943

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63224

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		11/09/20 20:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	93		46 - 136	11/06/20 23:59	11/09/20 20:55	1
1,1,2,2-Tetrachloroethane (2C)	93		46 - 136	11/06/20 23:59	11/09/20 20:55	1

Lab Sample ID: LCS 410-63224/2-A
Matrix: Water
Analysis Batch: 63943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide (1C)	0.128	0.118		ug/L		92	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	94		46 - 136
1,1,2,2-Tetrachloroethane (2C)	94		46 - 136

Lab Sample ID: LCSD 410-63224/3-A
Matrix: Water
Analysis Batch: 63943

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63224

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (1C)	0.128	0.114		ug/L		89	60 - 140	3	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-63224/3-A

Matrix: Water

Analysis Batch: 63943

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63224

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,1,2,2-Tetrachloroethane (1C)	92		46 - 136
1,1,2,2-Tetrachloroethane (2C)	92		46 - 136

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-67315/4

Matrix: Water

Analysis Batch: 67315

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		11/18/20 05:32	1
Chloride	0.30	U M	0.40	0.30	0.20	mg/L		11/18/20 05:32	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		11/18/20 05:32	1

Lab Sample ID: LCS 410-67315/3

Matrix: Water

Analysis Batch: 67315

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Bromide		7.50	7.42		mg/L		99	90 - 110	
Chloride		3.00	2.88		mg/L		96	90 - 110	
Sulfate		7.50	7.22		mg/L		96	90 - 110	

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-61178/1-A

Matrix: Water

Analysis Batch: 61785

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61178

	MB	MB							
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		11/03/20 17:44	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		11/03/20 17:44	1

Lab Sample ID: LCS 410-61178/2-A

Matrix: Water

Analysis Batch: 64252

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61178

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron		0.402	0.457		mg/L		114	87 - 115	
Manganese		0.0200	0.0226		mg/L		113	90 - 114	

Lab Sample ID: MB 410-61091/1-A

Matrix: Water

Analysis Batch: 61335

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 61091

	MB	MB							
Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		11/03/20 04:15	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		11/03/20 04:15	1
Potassium	0.38	U	0.50	0.38	0.20	mg/L		11/03/20 04:15	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		11/03/20 04:15	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 6010C - Metals (ICP)

Lab Sample ID: LCS 410-61091/2-A
Matrix: Water
Analysis Batch: 61335

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 61091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.404		mg/L		101	87 - 113
Potassium	5.60	5.66		mg/L		101	86 - 114
Sodium	2.00	2.05		mg/L		103	87 - 115

Lab Sample ID: LCS 410-61091/2-A
Matrix: Water
Analysis Batch: 66161

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 61091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	0.200	0.196		mg/L		98	85 - 113

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-61297/1-A
Matrix: Water
Analysis Batch: 64773

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 61297

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		11/11/20 10:26	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		11/11/20 10:26	1

Lab Sample ID: LCS 410-61297/2-A
Matrix: Water
Analysis Batch: 64773

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 61297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0679		mg/L		113	84 - 116
Lead	0.0300	0.0329		mg/L		110	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-62152/45
Matrix: Water
Analysis Batch: 62152

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/03/20 21:40	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		11/03/20 21:40	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		11/03/20 21:40	1

Lab Sample ID: LCS 410-62152/46
Matrix: Water
Analysis Batch: 62152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	166		mg/L		88	82 - 106

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: 410-19107-2 MS

Matrix: Water

Analysis Batch: 62152

Client Sample ID: GW076-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	510	J1	189	659	J1	mg/L	-	78	82 - 106

Lab Sample ID: 410-19107-2 DU

Matrix: Water

Analysis Batch: 62152

Client Sample ID: GW076-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	510	J1	500		mg/L	-	2	5

Lab Sample ID: 410-19107-3 DU

Matrix: Water

Analysis Batch: 62152

Client Sample ID: GW076-604

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	500		512		mg/L	-	2	5

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-68067/20

Matrix: Water

Analysis Batch: 68067

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L	-	11/18/20 16:05	1

Lab Sample ID: LCS 410-68067/21

Matrix: Water

Analysis Batch: 68067

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.57		mg/L	-	103	90 - 110

Lab Sample ID: 410-19107-6 MS

Matrix: Water

Analysis Batch: 68067

Client Sample ID: GW001-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.12		1.00	1.10		mg/L	-	98	90 - 110

Lab Sample ID: 410-19107-6 DU

Matrix: Water

Analysis Batch: 68067

Client Sample ID: GW001-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.12		0.129		mg/L	-	7	10

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QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

GC/MS VOA

Analysis Batch: 64224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-1	TB204-69	Total/NA	Water	8260C DOD	
410-19107-2	GW076-204	Total/NA	Water	8260C DOD	
410-19107-3	GW076-604	Total/NA	Water	8260C DOD	
410-19107-4	TB204-68	Total/NA	Water	8260C DOD	
410-19107-5	GW079-204	Total/NA	Water	8260C DOD	
410-19107-5 - DL	GW079-204	Total/NA	Water	8260C DOD	
410-19107-6	GW001-204	Total/NA	Water	8260C DOD	
MB 410-64224/10	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-64224/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-64224/7	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 410-64224/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
LCSD 410-64224/8	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 63224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-1	TB204-69	Total/NA	Water	8011	
410-19107-2	GW076-204	Total/NA	Water	8011	
410-19107-3	GW076-604	Total/NA	Water	8011	
410-19107-4	TB204-68	Total/NA	Water	8011	
410-19107-5	GW079-204	Total/NA	Water	8011	
410-19107-6	GW001-204	Total/NA	Water	8011	
MB 410-63224/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-63224/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-63224/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 63943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-1	TB204-69	Total/NA	Water	8011	63224
410-19107-4	TB204-68	Total/NA	Water	8011	63224
MB 410-63224/1-A	Method Blank	Total/NA	Water	8011	63224
LCS 410-63224/2-A	Lab Control Sample	Total/NA	Water	8011	63224
LCSD 410-63224/3-A	Lab Control Sample Dup	Total/NA	Water	8011	63224

Analysis Batch: 64429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Total/NA	Water	8011	63224
410-19107-3	GW076-604	Total/NA	Water	8011	63224
410-19107-5	GW079-204	Total/NA	Water	8011	63224
410-19107-6	GW001-204	Total/NA	Water	8011	63224

HPLC/IC

Analysis Batch: 67315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Total/NA	Water	EPA 300.0 R2.1	
410-19107-3	GW076-604	Total/NA	Water	EPA 300.0 R2.1	
410-19107-5	GW079-204	Total/NA	Water	EPA 300.0 R2.1	
410-19107-5	GW079-204	Total/NA	Water	EPA 300.0 R2.1	
410-19107-6	GW001-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-67315/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

HPLC/IC (Continued)

Analysis Batch: 67315 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-67315/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 61091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Total Recoverable	Water	3005A	
410-19107-3	GW076-604	Total Recoverable	Water	3005A	
410-19107-5	GW079-204	Total Recoverable	Water	3005A	
410-19107-6	GW001-204	Total Recoverable	Water	3005A	
MB 410-61091/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-61091/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 61178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Dissolved	Water	Non-Digest Prep	
410-19107-3	GW076-604	Dissolved	Water	Non-Digest Prep	
410-19107-5	GW079-204	Dissolved	Water	Non-Digest Prep	
410-19107-6	GW001-204	Dissolved	Water	Non-Digest Prep	
MB 410-61178/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-61178/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Prep Batch: 61297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Total/NA	Water	3005A	
410-19107-3	GW076-604	Total/NA	Water	3005A	
410-19107-5	GW079-204	Total/NA	Water	3005A	
410-19107-6	GW001-204	Total/NA	Water	3005A	
MB 410-61297/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-61297/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 61335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Total Recoverable	Water	6010C	61091
410-19107-3	GW076-604	Total Recoverable	Water	6010C	61091
410-19107-5	GW079-204	Total Recoverable	Water	6010C	61091
410-19107-6	GW001-204	Total Recoverable	Water	6010C	61091
MB 410-61091/1-A	Method Blank	Total Recoverable	Water	6010C	61091
LCS 410-61091/2-A	Lab Control Sample	Total Recoverable	Water	6010C	61091

Analysis Batch: 61785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Dissolved	Water	6010C	61178
410-19107-3	GW076-604	Dissolved	Water	6010C	61178
410-19107-5	GW079-204	Dissolved	Water	6010C	61178
410-19107-6	GW001-204	Dissolved	Water	6010C	61178
MB 410-61178/1-A	Method Blank	Total/NA	Water	6010C	61178

Analysis Batch: 64252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Dissolved	Water	6010C	61178

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Metals (Continued)

Analysis Batch: 64252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-3	GW076-604	Dissolved	Water	6010C	61178
410-19107-5	GW079-204	Dissolved	Water	6010C	61178
410-19107-6	GW001-204	Dissolved	Water	6010C	61178
LCS 410-61178/2-A	Lab Control Sample	Total/NA	Water	6010C	61178

Analysis Batch: 64562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-3	GW076-604	Total/NA	Water	6020A	61297
410-19107-5	GW079-204	Total/NA	Water	6020A	61297

Analysis Batch: 64773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Total/NA	Water	6020A	61297
410-19107-3	GW076-604	Total/NA	Water	6020A	61297
410-19107-5	GW079-204	Total/NA	Water	6020A	61297
410-19107-6	GW001-204	Total/NA	Water	6020A	61297
MB 410-61297/1-A	Method Blank	Total Recoverable	Water	6020A	61297
LCS 410-61297/2-A	Lab Control Sample	Total Recoverable	Water	6020A	61297

Analysis Batch: 66161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-6	GW001-204	Total Recoverable	Water	6010C	61091
LCS 410-61091/2-A	Lab Control Sample	Total Recoverable	Water	6010C	61091

General Chemistry

Analysis Batch: 62152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Total/NA	Water	2320B-2011	
410-19107-3	GW076-604	Total/NA	Water	2320B-2011	
410-19107-5	GW079-204	Total/NA	Water	2320B-2011	
410-19107-6	GW001-204	Total/NA	Water	2320B-2011	
MB 410-62152/45	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-62152/46	Lab Control Sample	Total/NA	Water	2320B-2011	
410-19107-2 MS	GW076-204	Total/NA	Water	2320B-2011	
410-19107-2 DU	GW076-204	Total/NA	Water	2320B-2011	
410-19107-3 DU	GW076-604	Total/NA	Water	2320B-2011	

Analysis Batch: 68067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-19107-2	GW076-204	Total/NA	Water	353.2	
410-19107-3	GW076-604	Total/NA	Water	353.2	
410-19107-5	GW079-204	Total/NA	Water	353.2	
410-19107-6	GW001-204	Total/NA	Water	353.2	
MB 410-68067/20	Method Blank	Total/NA	Water	353.2	
LCS 410-68067/21	Lab Control Sample	Total/NA	Water	353.2	
410-19107-6 MS	GW001-204	Total/NA	Water	353.2	
410-19107-6 DU	GW001-204	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: TB204-69

Lab Sample ID: 410-19107-1

Date Collected: 10/30/20 16:16

Matrix: Water

Date Received: 10/31/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 14:21	UCB5	ELLE
Total/NA	Prep	8011			63224	11/06/20 23:59	UKQ8	ELLE
Total/NA	Analysis	8011		1	63943	11/10/20 02:51	AC3T	ELLE

Client Sample ID: GW076-204

Lab Sample ID: 410-19107-2

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 16:55	UCB5	ELLE
Total/NA	Prep	8011			63224	11/06/20 23:59	UKQ8	ELLE
Total/NA	Analysis	8011		5	64429	11/10/20 21:17	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67315	11/18/20 06:44	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:05	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 18:56	UCIG	ELLE
Total Recoverable	Prep	3005A			61091	11/02/20 14:08	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61335	11/03/20 05:39	ULJC	ELLE
Total/NA	Prep	3005A			61297	11/03/20 02:15	UJL8	ELLE
Total/NA	Analysis	6020A		1	64773	11/11/20 10:48	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/03/20 22:06	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:20	KGQ6	ELLE

Client Sample ID: GW076-604

Lab Sample ID: 410-19107-3

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 17:18	UCB5	ELLE
Total/NA	Prep	8011			63224	11/06/20 23:59	UKQ8	ELLE
Total/NA	Analysis	8011		5	64429	11/10/20 21:34	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67315	11/18/20 07:20	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:12	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 19:17	UCIG	ELLE
Total Recoverable	Prep	3005A			61091	11/02/20 14:08	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61335	11/03/20 05:52	ULJC	ELLE
Total/NA	Prep	3005A			61297	11/03/20 02:15	UJL8	ELLE
Total/NA	Analysis	6020A		1	64773	11/11/20 10:42	V5SW	ELLE
Total/NA	Prep	3005A			61297	11/03/20 02:15	UJL8	ELLE
Total/NA	Analysis	6020A		1	64562	11/10/20 20:03	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/03/20 22:28	JB	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW076-604

Lab Sample ID: 410-19107-3

Date Collected: 10/30/20 09:28

Matrix: Water

Date Received: 10/31/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	68067	11/18/20 16:23	KGQ6	ELLE

Client Sample ID: TB204-68

Lab Sample ID: 410-19107-4

Date Collected: 10/30/20 16:16

Matrix: Water

Date Received: 10/31/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 14:43	UCB5	ELLE
Total/NA	Prep	8011			63224	11/06/20 23:59	UKQ8	ELLE
Total/NA	Analysis	8011		1	63943	11/10/20 03:41	AC3T	ELLE

Client Sample ID: GW079-204

Lab Sample ID: 410-19107-5

Date Collected: 10/30/20 14:42

Matrix: Water

Date Received: 10/31/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		5	64224	11/10/20 20:58	UCB5	ELLE
Total/NA	Analysis	8260C DOD	DL	50	64224	11/10/20 21:20	UCB5	ELLE
Total/NA	Prep	8011			63224	11/06/20 23:59	UKQ8	ELLE
Total/NA	Analysis	8011		1	64429	11/10/20 21:51	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67315	11/18/20 07:57	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	67315	11/18/20 08:51	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:22	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 19:21	UCIG	ELLE
Total Recoverable	Prep	3005A			61091	11/02/20 14:08	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61335	11/03/20 05:46	ULJC	ELLE
Total/NA	Prep	3005A			61297	11/03/20 02:15	UJL8	ELLE
Total/NA	Analysis	6020A		1	64773	11/11/20 10:47	V5SW	ELLE
Total/NA	Prep	3005A			61297	11/03/20 02:15	UJL8	ELLE
Total/NA	Analysis	6020A		1	64562	11/10/20 20:09	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/03/20 22:43	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:25	KGQ6	ELLE

Client Sample ID: GW001-204

Lab Sample ID: 410-19107-6

Date Collected: 10/30/20 12:03

Matrix: Water

Date Received: 10/31/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	64224	11/10/20 17:40	UCB5	ELLE
Total/NA	Prep	8011			63224	11/06/20 23:59	UKQ8	ELLE
Total/NA	Analysis	8011		5	64429	11/10/20 22:08	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	67315	11/18/20 09:09	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Client Sample ID: GW001-204

Lab Sample ID: 410-19107-6

Date Collected: 10/30/20 12:03

Matrix: Water

Date Received: 10/31/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	64252	11/10/20 09:09	SB	ELLE
Dissolved	Prep	Non-Digest Prep			61178	11/02/20 17:41	UJLA	ELLE
Dissolved	Analysis	6010C		1	61785	11/03/20 19:07	UCIG	ELLE
Total Recoverable	Prep	3005A			61091	11/02/20 14:08	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	66161	11/15/20 13:22	SB	ELLE
Total Recoverable	Prep	3005A			61091	11/02/20 14:08	UJLA	ELLE
Total Recoverable	Analysis	6010C		1	61335	11/03/20 05:36	ULJC	ELLE
Total/NA	Prep	3005A			61297	11/03/20 02:15	UJL8	ELLE
Total/NA	Analysis	6020A		1	64773	11/11/20 11:13	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	62152	11/03/20 22:57	JB	ELLE
Total/NA	Analysis	353.2		1	68067	11/18/20 16:26	KGQ6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-30-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-19107-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-19107-1	TB204-69	Water	10/30/20 16:16	10/31/20 10:10	
410-19107-2	GW076-204	Water	10/30/20 09:28	10/31/20 10:10	
410-19107-3	GW076-604	Water	10/30/20 09:28	10/31/20 10:10	
410-19107-4	TB204-68	Water	10/30/20 16:16	10/31/20 10:10	
410-19107-5	GW079-204	Water	10/30/20 14:42	10/31/20 10:10	
410-19107-6	GW001-204	Water	10/30/20 12:03	10/31/20 10:10	

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410-19107 Chain of Custody

EA 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-69			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility	PROJECT NUMBER: 6360401	LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@east.com EA Amenda Smith: aamih@east.com EA				YEAR: 2020					
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower Kay-Hower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4					
ANALYSIS REQUIRED (Specify number of bottles)												COMMENTS			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs	BTEX	(BTEX)	EDB	(BTEX)	(BTEX)	(BTEX)				
1	TB204-69	10-30-2020	1615	4	2			2							
2															
3															
4															
5															
Associated with: GW076-204 GW076-604															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5276											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schmeelk				10-30-2020		1830		Printed Name and Signature: Wesley Miller				11/31/2020		1610	
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 564-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-076-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	ED8 (8011)	Total (As, Pb, Ca, K, Na, Mg) (6011)	Disolved Fe, Mn (6020A, 6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW076-204	10-30-2020	0928	10	3	—	—	2	1	1*	1	1	1	—	—	X
2	GW076-604	10-30-2020	0928	10	3	—	—	2	1	1*	1	1	1	—	—	
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-710 TB204-69																
SAMPLER(S): D. Schmeckle				COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5276												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
D. Schmeckle				10-30-2020		1830										
Printed Name and Signature:				Printed Name and Signature:												
Printed Name and Signature:				Printed Name and Signature:												
Printed Name and Signature:				Printed Name and Signature:												
Printed Name and Signature:				Printed Name and Signature:												

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EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB204-68	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lammert: tlammert@eurofins.com EA Amanda Smith: asmith@eurofins.com EA				YEAR: 2020			
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eurofins.com EA				QUARTER: 4			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kay Hower KeyHower@eurofinsUS.com Eurofins 1 (717) 554-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of bottles	VOCs (9200C)	BTEX (9200C)	BTEX (9200C)	EDB (9011)	Total As, Pb, Cu, Cd, Ni, Mg (9200A8010C)	Dissolved Fe, Mn (9200A8010C)	Chloride, bromide, sulfate (30010)	Nitrate-Nitrite (30010)	As, Se, Ag (30010)	As, Se, Ag (30010)	COMMENTS
1	TB204-68	10-30-2020	1615 ^h	4	2	—	—	2	—	—	—	—	—	—	
2															
3															
4															
5															
Associated with: GW001-204 GW079-204															
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5265											
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: D. Schmeelk				10-30-2020		1830									
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Wesley Miller				1/31/2020		10/14	

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225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 554-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER				
												COC-079-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA				YEAR: 2020				
								FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 (Oct-Dec)				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (6011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M/2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW079-204	10-30-2020	1442	10	3	—	—	2	1	1*	1	1	1	—	—	
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-210 SAMPLER(S): D. Schmeelk RELINQUISHED BY: DATE: 10-30-2020 TIME: 1830 COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5265 RECEIVED BY: DATE: 10/31/2020																

10/31/2020
 10/31/2020
 11/24/2020

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-001-204	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 (Oct-Dec)			
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	EDB (8260C)	Total (As, Pb, Cd, Cr, Hg, Mn) (6010C)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSK-175)	COMMENTS	
1	GW001-204	10-30-2020	1203	10	3	—	2	1	1*	1	1	1	—		
2															
3															
4															
5															
6															
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered															
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk DATE: 10-30-2020 TIME: 1830 COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5265 RECEIVED BY: Wesley Miller DATE: 11/3/2020 TIME: 1014 TB204-68															

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

CHAIN-OF-CUSTODY RECORD

COC NUMBER
COC-TB204-69

YEAR: 2020
QUARTER: 4

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601

FAX AND MAIL REPORTS/EDD TO: Tara Lammond: tlammond@east.com EA
Amanda Smith: asmith@east.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

Associated with: GW076-204
GW076-604

SAMPLER(S): D. Schmeelk

COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5276

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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-076-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 4 (Oct-Dec)		
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total Carbonate, and Bicarbonate) (SM2320B)	Carbon Dioxide (RSK-175)	Methane (RSK-175)	COMMENTS
1	GW076-204	10-30-2020	0928	10	3	—	—	2	1	1*	1	1	1	—	—	X
2	GW076-604	10-30-2020	0928	10	3	—	—	2	1	1*	1	1	1	—	—	
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-710																
SAMPLER(S): D. Schmeick				COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5276												
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
D. Schmeick				10-30-2020		1830										
Printed Name and Signature:				Printed Name and Signature:												
Printed Name and Signature:				Printed Name and Signature:												
Printed Name and Signature:				Printed Name and Signature:												

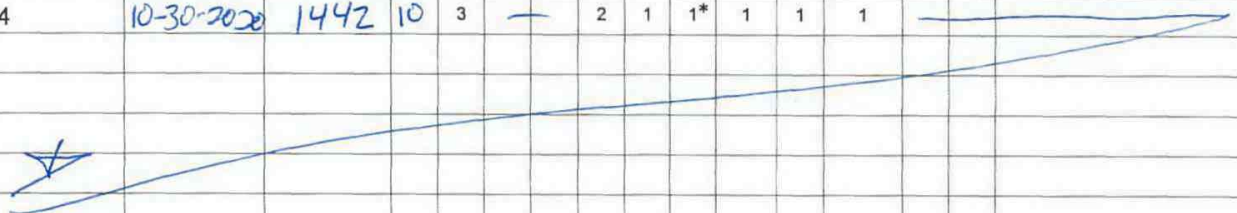
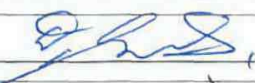
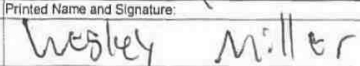
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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB204-68	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility	PROJECT NUMBER: 6360401	LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tera Liment: tliment@eurofins.com EA Amanda Smith: asmith@eurofins.com EA		YEAR: 2020	
				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eurofins.com EA		QUARTER: 4	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Key Hower KeyHower@eurofinsUS.com Eurofins 1 (717) 554-7258			
				ANALYSIS REQUIRED (Specify number of bottles)			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(6011C) EDB (6020A/6010C) Total As, Pb, Cu, Cd, Ni, Mg (6011C) Dissolved Fe, Mn (6020A/6010C) Chloride, bromide, sulfate (300.0) Nitrate-Nitrite (353.2) Arsenite (SM2320B) (Total Carbonate and Bicarbonate)	COMMENTS	
1	TB204-68	10-30-2020	1615 ^h	4	2		
2							
3							
4							
5							
Associated with: GW001-204 GW079-204							
SAMPLER(S): D. Schmeelk				COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5265			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	
Printed Name and Signature: D. Schmeelk		10-30-2020	1830	Printed Name and Signature: Wesley Miller		11/3/2020	
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			

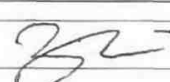
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 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-079-204				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258								QUARTER: 4 (Oct-Dec)		
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, Ni, Mn, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RISK-175)	Methane (RISK-175)	COMMENTS
1	GW079-204	10-30-2020	1442	10	3	—	—	2	1	1*	1	1	1	—	—	
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-210 SAMPLER(S): D. Schmeelk RELINQUISHED BY: D. Schmeelk  COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5265 RECEIVED BY: Wesley Miller  DATE: 10-30-2020 TIME: 1830 DATE: 10/31/2020 TIME: 1014																

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10/31/2020
11/24/2020

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-001-204										
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA										
PROJECT SITE AND PHASE: ST106/SS111		Lab PO Number: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258		YEAR: 2020 QUARTER: 4 (Oct-Dec)										
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (#260C) BTEX	BTEXN (#260C) BTEXN	ED8 (#8011)	Total (As, Pb, Cd, K, Na, Mg) (#6020A, #6010C)	Dissolved Fe, Mn (#6020A, #6010C)	Chloride, bromide, sulfate (#30010)	Nitrate-Nitrite (#3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (#3532)	Carbon Dioxide (#SM2320B)	(RSK-175) Methane	(RSK-175)	COMMENTS
1	GW001-204	10-30-2020	1203	10	3	—	2	1	1*	1	1	1				
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump SN: 1807B-710 SAMPLER(S): D. Schmeelk RELINQUISHED BY:  DATE: 10-30-2020 TIME: 1830 PRINTED NAME AND SIGNATURE: D. Schmeelk PRINTED NAME AND SIGNATURE: _____ PRINTED NAME AND SIGNATURE: _____ PRINTED NAME AND SIGNATURE: _____																
COURIER AND SHIPPING NUMBER: FedEx 7719 4002 5265 RECEIVED BY: _____ DATE: 11/31/2020 TIME: 1014 PRINTED NAME AND SIGNATURE: Wesley Miller 																

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Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-19107-1

Login Number: 19107**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: [410-22058-1](#)

Client Project/Site: Kirtland AFB Bulk Fuels Facility

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
12/23/2020 3:16:17 PM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Darlene Bandy
Project Manager I
12/23/2020 3:16:17 PM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
M	Manual integrated compound.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

GC Semi VOA

Qualifier	Qualifier Description
M	Manual integrated compound.
U	Undetected at the Limit of Detection.

HPLC/IC

Qualifier	Qualifier Description
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
D	The reported value is from a dilution.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent

Eurofins Lancaster Laboratories Env, LLC

Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Job ID: 410-22058-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-22058-1

Receipt

The samples were received on 11/25/2020 12:05 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 1.0° C.

GC/MS VOA

Method 8260C DOD: The response for Dichlorodifluoromethane in the initial calibration verification (ICV) marginally exceeds the DoD acceptance criteria on batch 410-73000. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with one of the Method 8260 analytes requested. The following sample was received preserved with hydrochloric acid: ER204-04 (410-22058-3). The requested target analyte list includes Acrolein and Acrylonitrile, an acid-labile compound that degrades in an acidic medium. However, samples are preserved per the QAPP.

Method 8260C DOD: The response for Dichlorodifluoromethane in the initial calibration verification marginally exceeds the DoD acceptance criteria on analytical batch 410-73609. Due to the marginal nature of the outlier(s), the data is reported.

Method 8260C DOD: The Closing Continuing Calibration Verification (CCVC) associated with batch 410-73609 recovered above the upper control limit for Tetrachloroethene. Any detections for the compound within the referencing samples are considered estimated.

Method 8260C DOD: The continuing calibration verification (CCV) associated with batch 410-73609 recovered above the upper control limit for 2-Butanone, 4-Methyl-2-pentanone, Acetone, Acrylonitrile, Bromoform, Carbon tetrachloride, Hexachlorobutadiene and Trichlorofluoromethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260C DOD: The preservative used in the sample containers provided is not compatible with some of the Method 8260 analytes requested. The following samples were received preserved with hydrochloric acid: GW080-204 (410-22058-1), TB204-70 (410-22058-2) and TB204-71 (410-22058-4). The requested target analyte list includes Acrolein and Acrylonitrile, acid-labile compounds that degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The continuing calibration blank (CCB) and method blank (MB) for analytical batch 410-73438 contained Chloride above the method detection limit (MDL). All reported samples associated with this CCB/MB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB/MB; therefore, re-analysis of samples was not performed.

Method 300.0: The continuing calibration verification (CCV) associated with batch 410-73438 exhibited % difference of > 30% for the following analyte(s) Chloride; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Job ID: 410-22058-1 (Continued)

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Conti

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: GW080-204

Lab Sample ID: 410-22058-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethane	2.7		1.0	0.50	0.30	ug/L	1			8260C DOD	Total/NA
Benzene	82		1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Ethylbenzene	5.9		1.0	0.80	0.40	ug/L	1			8260C DOD	Total/NA
Isopropylbenzene	1.1	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
N-Propylbenzene	0.35	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
o-Xylene	1.5		1.0	0.80	0.40	ug/L	1			8260C DOD	Total/NA
p-Isopropyltoluene	0.23	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
sec-Butylbenzene	1.1	J	5.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
tert-Butylbenzene	0.35	J	5.0	1.0	0.30	ug/L	1			8260C DOD	Total/NA
Toluene	0.33	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Xylenes, Total	1.5	J	6.0	2.8	1.4	ug/L	1			8260C DOD	Total/NA
Bromide	2.2	J D	2.5	2.0	1.3	mg/L	5			EPA 300.0 R2.1	Total/NA
Chloride	160	Q B D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	54	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	120		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	22		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.6		0.50	0.45	0.20	mg/L	1			6010C	Total Recoverable
Sodium	42		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Iron	2.7		0.21	0.10	0.041	mg/L	1			6010C	Dissolved
Manganese	4.5		0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Lead	0.000088	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO3	260		8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO3 to pH 4.5	260	J1	8.0	6.0	2.6	mg/L	1			2320B-2011	Total/NA

Client Sample ID: TB204-70

Lab Sample ID: 410-22058-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Toluene	0.59	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA

Client Sample ID: ER204-04

Lab Sample ID: 410-22058-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.8	J	20	2.0	0.70	ug/L	1			8260C DOD	Total/NA
Bromodichloromethane	0.63	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Chloroform	0.60	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Dibromochloromethane	0.80	J	1.0	0.50	0.20	ug/L	1			8260C DOD	Total/NA
Calcium	0.26		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Manganese	4.6	J	10	5.0	3.0	ug/L	1			6010C	Total Recoverable
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA

Client Sample ID: TB204-71

Lab Sample ID: 410-22058-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: GW080-204

Lab Sample ID: 410-22058-1

Date Collected: 11/24/20 13:48

Matrix: Water

Date Received: 11/25/20 12:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 20:08	1
1,1,2,2-Tetrachloroethane	0.50	U M	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		12/06/20 20:08	1
1,2,3-Trichloropropane	0.50	U M	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 20:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 20:08	1
1,2-Dibromo-3-Chloropropane	1.0	U M	5.0	1.0	0.30	ug/L		12/06/20 20:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,2-Dichloroethane	2.7		1.0	0.50	0.30	ug/L		12/06/20 20:08	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 20:08	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 20:08	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		12/06/20 20:08	1
2-Chlorotoluene	0.50	U M	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
2-Hexanone	1.0	U M	10	1.0	0.30	ug/L		12/06/20 20:08	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		12/06/20 20:08	1
Acetone	2.0	U Q M	20	2.0	0.70	ug/L		12/06/20 20:08	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		12/06/20 20:08	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		12/06/20 20:08	1
Benzene	82		1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		12/06/20 20:08	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 20:08	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
Carbon tetrachloride	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Dichlorodifluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Ethylbenzene	5.9		1.0	0.80	0.40	ug/L		12/06/20 20:08	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		12/06/20 20:08	1
Isopropylbenzene	1.1	J	5.0	0.50	0.20	ug/L		12/06/20 20:08	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: GW080-204

Lab Sample ID: 410-22058-1

Date Collected: 11/24/20 13:48

Matrix: Water

Date Received: 11/25/20 12:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 20:08	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 20:08	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 20:08	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
N-Propylbenzene	0.35	J	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
o-Xylene	1.5		1.0	0.80	0.40	ug/L		12/06/20 20:08	1
p-Isopropyltoluene	0.23	J	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
sec-Butylbenzene	1.1	J	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 20:08	1
tert-Butylbenzene	0.35	J	5.0	1.0	0.30	ug/L		12/06/20 20:08	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Toluene	0.33	J	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		12/06/20 20:08	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 20:08	1
Xylenes, Total	1.5	J	6.0	2.8	1.4	ug/L		12/06/20 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		81 - 118		12/06/20 20:08	1
4-Bromofluorobenzene (Surr)	97		85 - 114		12/06/20 20:08	1
Dibromofluoromethane (Surr)	100		80 - 119		12/06/20 20:08	1
Toluene-d8 (Surr)	95		89 - 112		12/06/20 20:08	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.029	0.019	0.0096	ug/L		12/04/20 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	60	M	46 - 136	12/03/20 00:05	12/04/20 22:31	1
1,1,2,2-Tetrachloroethane (2C)	73		46 - 136	12/03/20 00:05	12/04/20 22:31	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.2	J D	2.5	2.0	1.3	mg/L		12/06/20 00:35	5
Chloride	160	Q B D	20	15	10	mg/L		12/06/20 00:53	50
Sulfate	54	D	5.0	4.5	1.5	mg/L		12/06/20 00:35	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	120		0.20	0.15	0.096	mg/L		12/03/20 17:04	1
Magnesium	22		0.10	0.075	0.040	mg/L		12/03/20 17:04	1
Potassium	3.6		0.50	0.45	0.20	mg/L		12/04/20 15:45	1
Sodium	42		1.0	0.50	0.24	mg/L		12/03/20 17:04	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	2.7		0.21	0.10	0.041	mg/L		12/02/20 17:25	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: GW080-204

Lab Sample ID: 410-22058-1

Date Collected: 11/24/20 13:48

Matrix: Water

Date Received: 11/25/20 12:05

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	4.5		0.010	0.0052	0.0031	mg/L		12/02/20 17:25	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		11/30/20 14:30	1
Lead	0.000088	J	0.00050	0.00025	0.000071	mg/L		11/30/20 14:30	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	260		8.0	6.0	2.6	mg/L		12/01/20 19:00	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		12/01/20 19:00	1
Total Alkalinity as CaCO ₃ to pH 4.5	260	J1	8.0	6.0	2.6	mg/L		12/01/20 19:00	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		12/07/20 15:41	1

Client Sample ID: TB204-70

Lab Sample ID: 410-22058-2

Date Collected: 11/24/20 10:00

Matrix: Water

Date Received: 11/25/20 12:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:28	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		12/06/20 19:28	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:28	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:28	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:28	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:28	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:28	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		12/06/20 19:28	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		12/06/20 19:28	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		12/06/20 19:28	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		12/06/20 19:28	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		12/06/20 19:28	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		12/06/20 19:28	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: TB204-70

Lab Sample ID: 410-22058-2

Date Collected: 11/24/20 10:00

Matrix: Water

Date Received: 11/25/20 12:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		12/06/20 19:28	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:28	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
Carbon tetrachloride	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Dichlorodifluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		12/06/20 19:28	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		12/06/20 19:28	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:28	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:28	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:28	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		12/06/20 19:28	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:28	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:28	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Toluene	0.59	J	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		12/06/20 19:28	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:28	1
Xylenes, Total	2.8	U	6.0	2.8	1.4	ug/L		12/06/20 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		12/06/20 19:28	1
4-Bromofluorobenzene (Surr)	94		85 - 114		12/06/20 19:28	1
Dibromofluoromethane (Surr)	99		80 - 119		12/06/20 19:28	1
Toluene-d8 (Surr)	96		89 - 112		12/06/20 19:28	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.028	0.019	0.0095	ug/L		12/04/20 22:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: TB204-70

Lab Sample ID: 410-22058-2

Date Collected: 11/24/20 10:00

Matrix: Water

Date Received: 11/25/20 12:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	55		46 - 136	12/03/20 00:05	12/04/20 22:48	1
1,1,2,2-Tetrachloroethane (2C)	59		46 - 136	12/03/20 00:05	12/04/20 22:48	1

Client Sample ID: ER204-04

Lab Sample ID: 410-22058-3

Date Collected: 11/20/20 11:00

Matrix: Water

Date Received: 11/25/20 12:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 15:11	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		12/04/20 15:11	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		12/04/20 15:11	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		12/04/20 15:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		12/04/20 15:11	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 15:11	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/04/20 15:11	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 15:11	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		12/04/20 15:11	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		12/04/20 15:11	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		12/04/20 15:11	1
Acetone	2.8	J	20	2.0	0.70	ug/L		12/04/20 15:11	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		12/04/20 15:11	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		12/04/20 15:11	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
Bromodichloromethane	0.63	J	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		12/04/20 15:11	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 15:11	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Chloroform	0.60	J	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: ER204-04

Lab Sample ID: 410-22058-3

Date Collected: 11/20/20 11:00

Matrix: Water

Date Received: 11/25/20 12:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Dibromochloromethane	0.80	J	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Dichlorodifluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		12/04/20 15:11	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		12/04/20 15:11	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		12/04/20 15:11	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 15:11	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		12/04/20 15:11	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		12/04/20 15:11	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 15:11	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/04/20 15:11	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		12/04/20 15:11	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 15:11	1
Xylenes, Total	2.8	U	6.0	2.8	1.4	ug/L		12/04/20 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		12/04/20 15:11	1
4-Bromofluorobenzene (Surr)	94		85 - 114		12/04/20 15:11	1
Dibromofluoromethane (Surr)	99		80 - 119		12/04/20 15:11	1
Toluene-d8 (Surr)	103		89 - 112		12/04/20 15:11	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.029	0.019	0.0096	ug/L		12/04/20 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	59		46 - 136	12/03/20 00:05	12/04/20 23:05	1
1,1,2,2-Tetrachloroethane (2C)	61		46 - 136	12/03/20 00:05	12/04/20 23:05	1

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.26		0.20	0.15	0.096	mg/L		12/03/20 17:07	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		12/03/20 17:07	1
Potassium	0.45	U	0.50	0.45	0.20	mg/L		12/04/20 15:49	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		12/03/20 17:07	1
Iron	100	U	200	100	40	ug/L		12/03/20 17:07	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: ER204-04

Lab Sample ID: 410-22058-3

Date Collected: 11/20/20 11:00

Matrix: Water

Date Received: 11/25/20 12:05

Method: 6010C - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Manganese	4.6	J	10	5.0	3.0	ug/L		12/03/20 17:07	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		11/30/20 14:28	1
Lead	0.00012	J	0.00050	0.00025	0.000071	mg/L		11/30/20 14:28	1

Client Sample ID: TB204-71

Lab Sample ID: 410-22058-4

Date Collected: 11/24/20 17:15

Matrix: Water

Date Received: 11/25/20 12:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:48	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		12/06/20 19:48	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:48	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:48	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:48	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:48	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:48	1
2-Butanone	1.0	U Q	10	1.0	0.30	ug/L		12/06/20 19:48	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		12/06/20 19:48	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
4-Methyl-2-pentanone	1.0	U Q	10	1.0	0.50	ug/L		12/06/20 19:48	1
Acetone	2.0	U Q	20	2.0	0.70	ug/L		12/06/20 19:48	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		12/06/20 19:48	1
Acrylonitrile	1.0	U Q	20	1.0	0.30	ug/L		12/06/20 19:48	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Bromoform	2.0	U Q	4.0	2.0	1.0	ug/L		12/06/20 19:48	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:48	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
Carbon tetrachloride	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 19:48	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: TB204-71

Lab Sample ID: 410-22058-4

Date Collected: 11/24/20 17:15

Matrix: Water

Date Received: 11/25/20 12:05

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Dichlorodifluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		12/06/20 19:48	1
Hexachlorobutadiene	4.0	U Q	5.0	4.0	2.0	ug/L		12/06/20 19:48	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:48	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:48	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:48	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		12/06/20 19:48	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:48	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:48	1
Tetrachloroethene	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Trichlorofluoromethane	0.50	U Q	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		12/06/20 19:48	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:48	1
Xylenes, Total	2.8	U	6.0	2.8	1.4	ug/L		12/06/20 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		12/06/20 19:48	1
4-Bromofluorobenzene (Surr)	94		85 - 114		12/06/20 19:48	1
Dibromofluoromethane (Surr)	98		80 - 119		12/06/20 19:48	1
Toluene-d8 (Surr)	96		89 - 112		12/06/20 19:48	1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ethylene Dibromide (2C)	0.019	U	0.028	0.019	0.0094	ug/L		12/04/20 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	56		46 - 136	12/03/20 00:05	12/04/20 23:22	1
1,1,2,2-Tetrachloroethane (2C)	59		46 - 136	12/03/20 00:05	12/04/20 23:22	1

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Surrogate Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
410-22058-1	GW080-204	97	97	100	95
410-22058-2	TB204-70	98	94	99	96
410-22058-3	ER204-04	105	94	99	103
410-22058-4	TB204-71	98	94	98	96
LCS 410-73000/6	Lab Control Sample	99	103	97	105
LCS 410-73000/7	Lab Control Sample	101	102	95	104
LCS 410-73609/5	Lab Control Sample	99	96	100	95
LCS 410-73609/6	Lab Control Sample	97	94	99	96
MB 410-73000/9	Method Blank	105	95	98	103
MB 410-73609/8	Method Blank	98	95	99	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1122TCA1 (46-136)	1122TCA2 (46-136)
410-22058-1	GW080-204	60 M	73
410-22058-2	TB204-70	55	59
410-22058-3	ER204-04	59	61
410-22058-4	TB204-71	56	59
LCS 410-72382/2-A	Lab Control Sample	60	63
LCSD 410-72382/3-A	Lab Control Sample Dup	56	60
MB 410-72382/1-A	Method Blank	57	58

Surrogate Legend

1122TCA = 1,1,2,2-Tetrachloroethane

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-73000/9

Matrix: Water

Analysis Batch: 73000

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 11:08	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		12/04/20 11:08	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		12/04/20 11:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		12/04/20 11:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		12/04/20 11:08	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 11:08	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/04/20 11:08	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 11:08	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		12/04/20 11:08	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		12/04/20 11:08	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		12/04/20 11:08	1
Acetone	2.0	U	20	2.0	0.70	ug/L		12/04/20 11:08	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		12/04/20 11:08	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		12/04/20 11:08	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		12/04/20 11:08	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 11:08	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		12/04/20 11:08	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		12/04/20 11:08	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-73000/9

Matrix: Water

Analysis Batch: 73000

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		12/04/20 11:08	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		12/04/20 11:08	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		12/04/20 11:08	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		12/04/20 11:08	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		12/04/20 11:08	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/04/20 11:08	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		12/04/20 11:08	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		12/04/20 11:08	1
Xylenes, Total	2.8	U	6.0	2.8	1.4	ug/L		12/04/20 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		12/04/20 11:08	1
4-Bromofluorobenzene (Surr)	95		85 - 114		12/04/20 11:08	1
Dibromofluoromethane (Surr)	98		80 - 119		12/04/20 11:08	1
Toluene-d8 (Surr)	103		89 - 112		12/04/20 11:08	1

Lab Sample ID: LCS 410-73000/6

Matrix: Water

Analysis Batch: 73000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.7		ug/L		98	78 - 124
1,1,1-Trichloroethane	20.0	19.4		ug/L		97	74 - 131
1,1,2,2-Tetrachloroethane	20.0	22.3		ug/L		111	71 - 121
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	80 - 119
1,1-Dichloroethane	20.0	21.2		ug/L		106	77 - 125
1,1-Dichloroethene	20.0	18.8		ug/L		94	71 - 131
1,1-Dichloropropene	20.0	20.2		ug/L		101	79 - 125
1,2,3-Trichlorobenzene	20.0	19.3		ug/L		97	69 - 129
1,2,3-Trichloropropane	20.0	21.6		ug/L		108	73 - 122
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	69 - 130
1,2,4-Trimethylbenzene	20.0	20.6		ug/L		103	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.2		ug/L		101	62 - 128
1,2-Dibromoethane	20.0	20.3		ug/L		102	77 - 121
1,2-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 119
1,2-Dichloroethane	20.0	21.0		ug/L		105	73 - 128

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-73000/6

Matrix: Water

Analysis Batch: 73000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	20.0	22.0		ug/L		110	78 - 122
1,3,5-Trimethylbenzene	20.0	20.8		ug/L		104	75 - 124
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 119
1,3-Dichloropropane	20.0	21.3		ug/L		107	80 - 119
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	79 - 118
2,2-Dichloropropane	20.0	19.4		ug/L		97	60 - 139
2-Butanone	150	181		ug/L		120	56 - 143
2-Chlorotoluene	20.0	20.3		ug/L		101	79 - 122
2-Hexanone	100	132		ug/L		132	57 - 139
4-Chlorotoluene	20.0	20.3		ug/L		101	78 - 122
4-Methyl-2-pentanone	100	121		ug/L		121	67 - 130
Acetone	150	185		ug/L		123	39 - 160
Acrolein	150	159		ug/L		106	39 - 155
Acrylonitrile	100	114		ug/L		114	63 - 135
Benzene	20.0	21.2		ug/L		106	42 - 138
Bromobenzene	20.0	19.9		ug/L		100	80 - 120
Bromochloromethane	20.0	19.0		ug/L		95	78 - 123
Bromodichloromethane	20.0	20.1		ug/L		101	79 - 125
Bromoform	20.0	18.0		ug/L		90	66 - 130
Bromomethane	20.0	17.7		ug/L		89	53 - 141
Carbon disulfide	20.0	18.2		ug/L		91	64 - 133
Carbon tetrachloride	20.0	19.0		ug/L		95	72 - 136
Chlorobenzene	20.0	21.0		ug/L		105	82 - 118
Chloroethane	20.0	18.9		ug/L		95	60 - 138
Chloroform	20.0	20.9		ug/L		105	79 - 124
Chloromethane	20.0	19.6		ug/L		98	50 - 139
cis-1,2-Dichloroethene	20.0	21.1		ug/L		106	78 - 123
cis-1,3-Dichloropropene	20.0	20.1		ug/L		100	75 - 124
Dibromochloromethane	20.0	20.0		ug/L		100	74 - 126
Dibromomethane	20.0	20.6		ug/L		103	79 - 123
Dichlorodifluoromethane	20.0	14.3		ug/L		72	32 - 152
Ethylbenzene	20.0	20.9		ug/L		104	79 - 121
Hexachlorobutadiene	20.0	18.3		ug/L		92	66 - 134
Isopropylbenzene	20.0	20.3		ug/L		101	72 - 131
m&p-Xylene	40.0	41.5		ug/L		104	80 - 121
Methyl tertiary butyl ether	20.0	18.7		ug/L		94	71 - 124
Methylene Chloride	20.0	21.7		ug/L		108	74 - 124
Naphthalene	20.0	19.8		ug/L		99	61 - 128
n-Butylbenzene	20.0	20.6		ug/L		103	75 - 128
N-Propylbenzene	20.0	21.7		ug/L		108	76 - 126
o-Xylene	20.0	20.0		ug/L		100	78 - 122
p-Isopropyltoluene	20.0	20.3		ug/L		102	77 - 127
sec-Butylbenzene	20.0	20.6		ug/L		103	77 - 126
Styrene	20.0	20.0		ug/L		100	78 - 123
tert-Butylbenzene	20.0	19.2		ug/L		96	78 - 124
Tetrachloroethene	20.0	18.8		ug/L		94	74 - 129
Toluene	20.0	21.3		ug/L		106	80 - 121
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124
trans-1,3-Dichloropropene	20.0	20.3		ug/L		102	73 - 127

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-73000/6

Matrix: Water

Analysis Batch: 73000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.0	20.0		ug/L		100	79 - 123
Trichlorofluoromethane	20.0	16.8	M	ug/L		84	65 - 141
Vinyl chloride	20.0	19.6		ug/L		98	58 - 137
Xylenes, Total	60.0	61.5		ug/L		103	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	103		85 - 114
Dibromofluoromethane (Surr)	97		80 - 119
Toluene-d8 (Surr)	105		89 - 112

Lab Sample ID: LCS 410-73000/7

Matrix: Water

Analysis Batch: 73000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	94.8		ug/L		95	54 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		81 - 118
4-Bromofluorobenzene (Surr)	102		85 - 114
Dibromofluoromethane (Surr)	95		80 - 119
Toluene-d8 (Surr)	104		89 - 112

Lab Sample ID: MB 410-73609/8

Matrix: Water

Analysis Batch: 73609

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,1,1-Trichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:07	1
1,1,2,2-Tetrachloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,1,2-Trichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,1-Dichloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,1-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,1-Dichloropropene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,2,3-Trichlorobenzene	1.0	U	5.0	1.0	0.40	ug/L		12/06/20 19:07	1
1,2,3-Trichloropropane	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,2,4-Trichlorobenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:07	1
1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:07	1
1,2-Dibromoethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,2-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,2-Dichloroethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:07	1
1,2-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,3,5-Trimethylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:07	1
1,3-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
1,3-Dichloropropane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-73609/8

Matrix: Water

Analysis Batch: 73609

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
2,2-Dichloropropane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:07	1
2-Butanone	1.0	U	10	1.0	0.30	ug/L		12/06/20 19:07	1
2-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
2-Hexanone	1.0	U	10	1.0	0.30	ug/L		12/06/20 19:07	1
4-Chlorotoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
4-Methyl-2-pentanone	1.0	U	10	1.0	0.50	ug/L		12/06/20 19:07	1
Acetone	2.0	U	20	2.0	0.70	ug/L		12/06/20 19:07	1
Acrolein	5.0	U	100	5.0	3.0	ug/L		12/06/20 19:07	1
Acrylonitrile	1.0	U	20	1.0	0.30	ug/L		12/06/20 19:07	1
Benzene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Bromobenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
Bromochloromethane	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
Bromodichloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Bromoform	2.0	U	4.0	2.0	1.0	ug/L		12/06/20 19:07	1
Bromomethane	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:07	1
Carbon disulfide	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
Carbon tetrachloride	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Chlorobenzene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Chloroethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Chloroform	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Chloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
cis-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
cis-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Dibromochloromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Dibromomethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Ethylbenzene	0.80	U	1.0	0.80	0.40	ug/L		12/06/20 19:07	1
Hexachlorobutadiene	4.0	U	5.0	4.0	2.0	ug/L		12/06/20 19:07	1
Isopropylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
m&p-Xylene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:07	1
Methyl tertiary butyl ether	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Methylene Chloride	0.50	U	1.0	0.50	0.30	ug/L		12/06/20 19:07	1
Naphthalene	2.0	U	5.0	2.0	1.0	ug/L		12/06/20 19:07	1
n-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
N-Propylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
o-Xylene	0.80	U	1.0	0.80	0.40	ug/L		12/06/20 19:07	1
p-Isopropyltoluene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
sec-Butylbenzene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
Styrene	0.50	U	5.0	0.50	0.20	ug/L		12/06/20 19:07	1
tert-Butylbenzene	1.0	U	5.0	1.0	0.30	ug/L		12/06/20 19:07	1
Tetrachloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Toluene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
trans-1,2-Dichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
trans-1,3-Dichloropropene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Trichloroethene	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Trichlorofluoromethane	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1
Vinyl acetate	2.0	U	10	2.0	0.70	ug/L		12/06/20 19:07	1
Vinyl chloride	0.50	U	1.0	0.50	0.20	ug/L		12/06/20 19:07	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-73609/8

Matrix: Water

Analysis Batch: 73609

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Xylenes, Total	2.8	U	6.0	2.8	1.4	ug/L		12/06/20 19:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		12/06/20 19:07	1
4-Bromofluorobenzene (Surr)	95		85 - 114		12/06/20 19:07	1
Dibromofluoromethane (Surr)	99		80 - 119		12/06/20 19:07	1
Toluene-d8 (Surr)	97		89 - 112		12/06/20 19:07	1

Lab Sample ID: LCS 410-73609/5

Matrix: Water

Analysis Batch: 73609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.9		ug/L		99	78 - 124
1,1,1-Trichloroethane	20.0	20.9		ug/L		105	74 - 131
1,1,2,2-Tetrachloroethane	20.0	19.8		ug/L		99	71 - 121
1,1,2-Trichloroethane	20.0	20.6		ug/L		103	80 - 119
1,1-Dichloroethane	20.0	19.8		ug/L		99	77 - 125
1,1-Dichloroethene	20.0	20.2		ug/L		101	71 - 131
1,1-Dichloropropene	20.0	20.0		ug/L		100	79 - 125
1,2,3-Trichlorobenzene	20.0	21.4		ug/L		107	69 - 129
1,2,3-Trichloropropane	20.0	20.9		ug/L		104	73 - 122
1,2,4-Trichlorobenzene	20.0	21.2		ug/L		106	69 - 130
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		97	76 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.1		ug/L		95	62 - 128
1,2-Dibromoethane	20.0	20.5		ug/L		102	77 - 121
1,2-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119
1,2-Dichloroethane	20.0	19.7		ug/L		99	73 - 128
1,2-Dichloropropane	20.0	20.2		ug/L		101	78 - 122
1,3,5-Trimethylbenzene	20.0	19.7		ug/L		98	75 - 124
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 119
1,3-Dichloropropane	20.0	19.4		ug/L		97	80 - 119
1,4-Dichlorobenzene	20.0	20.9		ug/L		104	79 - 118
2,2-Dichloropropane	20.0	20.3		ug/L		102	60 - 139
2-Butanone	150	156		ug/L		104	56 - 143
2-Chlorotoluene	20.0	20.3		ug/L		102	79 - 122
2-Hexanone	100	103		ug/L		103	57 - 139
4-Chlorotoluene	20.0	20.3		ug/L		102	78 - 122
4-Methyl-2-pentanone	100	105		ug/L		105	67 - 130
Acetone	150	143		ug/L		95	39 - 160
Acrolein	150	124		ug/L		82	39 - 155
Acrylonitrile	100	101		ug/L		101	63 - 135
Benzene	20.0	20.0		ug/L		100	42 - 138
Bromobenzene	20.0	21.6		ug/L		108	80 - 120
Bromochloromethane	20.0	20.0		ug/L		100	78 - 123
Bromodichloromethane	20.0	20.2		ug/L		101	79 - 125
Bromoform	20.0	22.2		ug/L		111	66 - 130
Bromomethane	20.0	18.5		ug/L		92	53 - 141

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-73609/5

Matrix: Water

Analysis Batch: 73609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	20.0	17.9		ug/L		90	64 - 133
Carbon tetrachloride	20.0	21.9		ug/L		110	72 - 136
Chlorobenzene	20.0	20.6		ug/L		103	82 - 118
Chloroethane	20.0	17.8		ug/L		89	60 - 138
Chloroform	20.0	20.6		ug/L		103	79 - 124
Chloromethane	20.0	18.0		ug/L		90	50 - 139
cis-1,2-Dichloroethene	20.0	21.5		ug/L		107	78 - 123
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	75 - 124
Dibromochloromethane	20.0	20.7		ug/L		103	74 - 126
Dibromomethane	20.0	20.6		ug/L		103	79 - 123
Dichlorodifluoromethane	20.0	16.3		ug/L		82	32 - 152
Ethylbenzene	20.0	20.0		ug/L		100	79 - 121
Hexachlorobutadiene	20.0	22.5		ug/L		113	66 - 134
Isopropylbenzene	20.0	20.5		ug/L		103	72 - 131
m&p-Xylene	40.0	41.3		ug/L		103	80 - 121
Methyl tertiary butyl ether	20.0	19.2		ug/L		96	71 - 124
Methylene Chloride	20.0	20.5		ug/L		102	74 - 124
Naphthalene	20.0	19.6		ug/L		98	61 - 128
n-Butylbenzene	20.0	18.6		ug/L		93	75 - 128
N-Propylbenzene	20.0	20.1		ug/L		101	76 - 126
o-Xylene	20.0	20.0		ug/L		100	78 - 122
p-Isopropyltoluene	20.0	20.4		ug/L		102	77 - 127
sec-Butylbenzene	20.0	19.9		ug/L		99	77 - 126
Styrene	20.0	19.9		ug/L		100	78 - 123
tert-Butylbenzene	20.0	20.6		ug/L		103	78 - 124
Tetrachloroethene	20.0	20.8		ug/L		104	74 - 129
Toluene	20.0	19.8		ug/L		99	80 - 121
trans-1,2-Dichloroethene	20.0	20.4		ug/L		102	75 - 124
trans-1,3-Dichloropropene	20.0	18.2		ug/L		91	73 - 127
Trichloroethene	20.0	21.2		ug/L		106	79 - 123
Trichlorofluoromethane	20.0	20.6		ug/L		103	65 - 141
Vinyl chloride	20.0	18.1		ug/L		90	58 - 137
Xylenes, Total	60.0	61.3		ug/L		102	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	95		89 - 112

Lab Sample ID: LCS 410-73609/6

Matrix: Water

Analysis Batch: 73609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl acetate	100	84.4		ug/L		84	54 - 146

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 8260C DOD - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-73609/6

Matrix: Water

Analysis Batch: 73609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-72382/1-A

Matrix: Water

Analysis Batch: 73256

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72382

Analyte	MB	MB								
	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac	
Ethylene Dibromide (1C)	0.020	U	0.030	0.020	0.010	ug/L		12/04/20 21:41	1	
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (1C)	57		46 - 136					12/03/20 00:05	12/04/20 21:41	1
1,1,2,2-Tetrachloroethane (2C)	58		46 - 136					12/03/20 00:05	12/04/20 21:41	1

Lab Sample ID: LCS 410-72382/2-A

Matrix: Water

Analysis Batch: 73256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72382

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Ethylene Dibromide (1C)			0.128	0.130		ug/L		102	60 - 140	
Surrogate	LCS	LCS								
	%Recovery	Qualifier	Limits							
1,1,2,2-Tetrachloroethane (1C)	60		46 - 136							
1,1,2,2-Tetrachloroethane (2C)	63		46 - 136							

Lab Sample ID: LCSD 410-72382/3-A

Matrix: Water

Analysis Batch: 73256

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72382

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide (2C)			0.128	0.179		ug/L		140	60 - 140	14	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1,1,2,2-Tetrachloroethane (1C)	56		46 - 136								
1,1,2,2-Tetrachloroethane (2C)	60		46 - 136								

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-73438/4

Matrix: Water

Analysis Batch: 73438

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB								
	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac	
Bromide	0.40	U	0.50	0.40	0.25	mg/L		12/05/20 20:22	1	

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 410-73438/4

Matrix: Water

Analysis Batch: 73438

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Chloride	0.202	J	0.40	0.30	0.20	mg/L		12/05/20 20:22	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		12/05/20 20:22	1

Lab Sample ID: LCS 410-73438/3

Matrix: Water

Analysis Batch: 73438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	8.01		mg/L		107	90 - 110
Chloride	3.00	3.22		mg/L		107	90 - 110
Sulfate	7.50	7.78		mg/L		104	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-71279/1-A

Matrix: Water

Analysis Batch: 72269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71279

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.0688	J	0.21	0.10	0.041	mg/L		12/02/20 16:53	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		12/02/20 16:53	1

Lab Sample ID: LCS 410-71279/2-A

Matrix: Water

Analysis Batch: 72269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.0200	0.0226		mg/L		113	90 - 114

Lab Sample ID: LCS 410-71279/2-A

Matrix: Water

Analysis Batch: 73410

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.459		mg/L		114	87 - 115

Lab Sample ID: MB 410-70786/1-A

Matrix: Water

Analysis Batch: 72818

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 70786

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		12/03/20 16:21	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		12/03/20 16:21	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		12/03/20 16:21	1
Iron	100	U	200	100	40	ug/L		12/03/20 16:21	1
Manganese	5.0	U	10	5.0	3.0	ug/L		12/03/20 16:21	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 410-70786/1-A
Matrix: Water
Analysis Batch: 73225

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 70786

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	0.45	U	0.50	0.45	0.20	mg/L		12/04/20 15:32	1

Lab Sample ID: LCS 410-70786/2-A
Matrix: Water
Analysis Batch: 72818

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 70786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.426		mg/L		106	87 - 113
Magnesium	0.200	0.209		mg/L		105	85 - 113
Sodium	2.00	1.88		mg/L		94	87 - 115
Iron	402	434		ug/L		108	87 - 115
Manganese	20.0	22.0		ug/L		110	90 - 114

Lab Sample ID: LCS 410-70786/2-A
Matrix: Water
Analysis Batch: 73225

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 70786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.48		mg/L		98	86 - 114

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-70659/1-A
Matrix: Water
Analysis Batch: 71089

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 70659

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		11/30/20 13:48	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		11/30/20 13:48	1

Lab Sample ID: LCS 410-70659/2-A
Matrix: Water
Analysis Batch: 71089

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 70659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0605		mg/L		101	84 - 116
Lead	0.0300	0.0299		mg/L		100	88 - 115

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-71805/28
Matrix: Water
Analysis Batch: 71805

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		12/01/20 18:46	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	2.6	mg/L		12/01/20 18:46	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	2.6	mg/L		12/01/20 18:46	1

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-71805/29

Matrix: Water

Analysis Batch: 71805

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	161		mg/L		85	82 - 106

Lab Sample ID: 410-22058-1 MS

Matrix: Water

Analysis Batch: 71805

Client Sample ID: GW080-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	260	J1	189	372	J1	mg/L		59	82 - 106

Lab Sample ID: 410-22058-1 DU

Matrix: Water

Analysis Batch: 71805

Client Sample ID: GW080-204

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO ₃ to pH 4.5	260	J1	263		mg/L		1	5

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-73958/122

Matrix: Water

Analysis Batch: 73958

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		12/07/20 15:23	1

Lab Sample ID: MB 410-73958/82

Matrix: Water

Analysis Batch: 73958

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		12/07/20 14:30	1

Lab Sample ID: LCS 410-73958/123

Matrix: Water

Analysis Batch: 73958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.73		mg/L		109	90 - 110

Lab Sample ID: LCS 410-73958/83

Matrix: Water

Analysis Batch: 73958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.52		mg/L		101	90 - 110

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

GC/MS VOA

Analysis Batch: 73000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-3	ER204-04	Total/NA	Water	8260C DOD	
MB 410-73000/9	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-73000/6	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-73000/7	Lab Control Sample	Total/NA	Water	8260C DOD	

Analysis Batch: 73609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total/NA	Water	8260C DOD	
410-22058-2	TB204-70	Total/NA	Water	8260C DOD	
410-22058-4	TB204-71	Total/NA	Water	8260C DOD	
MB 410-73609/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 410-73609/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCS 410-73609/6	Lab Control Sample	Total/NA	Water	8260C DOD	

GC Semi VOA

Prep Batch: 72382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total/NA	Water	8011	
410-22058-2	TB204-70	Total/NA	Water	8011	
410-22058-3	ER204-04	Total/NA	Water	8011	
410-22058-4	TB204-71	Total/NA	Water	8011	
MB 410-72382/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-72382/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-72382/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 73256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total/NA	Water	8011	72382
410-22058-2	TB204-70	Total/NA	Water	8011	72382
410-22058-3	ER204-04	Total/NA	Water	8011	72382
410-22058-4	TB204-71	Total/NA	Water	8011	72382
MB 410-72382/1-A	Method Blank	Total/NA	Water	8011	72382
LCS 410-72382/2-A	Lab Control Sample	Total/NA	Water	8011	72382
LCSD 410-72382/3-A	Lab Control Sample Dup	Total/NA	Water	8011	72382

HPLC/IC

Analysis Batch: 73438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total/NA	Water	EPA 300.0 R2.1	
410-22058-1	GW080-204	Total/NA	Water	EPA 300.0 R2.1	
MB 410-73438/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-73438/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 70659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total/NA	Water	3005A	
410-22058-3	ER204-04	Total/NA	Water	3005A	
MB 410-70659/1-A	Method Blank	Total Recoverable	Water	3005A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Metals (Continued)

Prep Batch: 70659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-70659/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 70786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total Recoverable	Water	3005A	
410-22058-3	ER204-04	Total Recoverable	Water	3005A	
MB 410-70786/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-70786/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 71089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total/NA	Water	6020A	70659
410-22058-3	ER204-04	Total/NA	Water	6020A	70659
MB 410-70659/1-A	Method Blank	Total Recoverable	Water	6020A	70659
LCS 410-70659/2-A	Lab Control Sample	Total Recoverable	Water	6020A	70659

Prep Batch: 71279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Dissolved	Water	Non-Digest Prep	
MB 410-71279/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-71279/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	

Analysis Batch: 72269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Dissolved	Water	6010C	71279
MB 410-71279/1-A	Method Blank	Total/NA	Water	6010C	71279
LCS 410-71279/2-A	Lab Control Sample	Total/NA	Water	6010C	71279

Analysis Batch: 72818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total Recoverable	Water	6010C	70786
410-22058-3	ER204-04	Total Recoverable	Water	6010C	70786
MB 410-70786/1-A	Method Blank	Total Recoverable	Water	6010C	70786
LCS 410-70786/2-A	Lab Control Sample	Total Recoverable	Water	6010C	70786

Analysis Batch: 73225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total Recoverable	Water	6010C	70786
410-22058-3	ER204-04	Total Recoverable	Water	6010C	70786
MB 410-70786/1-A	Method Blank	Total Recoverable	Water	6010C	70786
LCS 410-70786/2-A	Lab Control Sample	Total Recoverable	Water	6010C	70786

Analysis Batch: 73410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-71279/2-A	Lab Control Sample	Total/NA	Water	6010C	71279

General Chemistry

Analysis Batch: 71805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total/NA	Water	2320B-2011	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

General Chemistry (Continued)

Analysis Batch: 71805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-71805/28	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-71805/29	Lab Control Sample	Total/NA	Water	2320B-2011	
410-22058-1 MS	GW080-204	Total/NA	Water	2320B-2011	
410-22058-1 DU	GW080-204	Total/NA	Water	2320B-2011	

Analysis Batch: 73958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-22058-1	GW080-204	Total/NA	Water	353.2	
MB 410-73958/122	Method Blank	Total/NA	Water	353.2	
MB 410-73958/82	Method Blank	Total/NA	Water	353.2	
LCS 410-73958/123	Lab Control Sample	Total/NA	Water	353.2	
LCS 410-73958/83	Lab Control Sample	Total/NA	Water	353.2	

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: GW080-204

Date Collected: 11/24/20 13:48

Date Received: 11/25/20 12:05

Lab Sample ID: 410-22058-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	73609	12/06/20 20:08	USEJ	ELLE
Total/NA	Prep	8011			72382	12/03/20 00:05	K2IL	ELLE
Total/NA	Analysis	8011		1	73256	12/04/20 22:31	AC3T	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		5	73438	12/06/20 00:35	W5UX	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	73438	12/06/20 00:53	W5UX	ELLE
Dissolved	Prep	Non-Digest Prep			71279	12/01/20 05:48	UJL8	ELLE
Dissolved	Analysis	6010C		1	72269	12/02/20 17:25	SB	ELLE
Total Recoverable	Prep	3005A			70786	11/30/20 02:11	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	72818	12/03/20 17:04	UCIG	ELLE
Total Recoverable	Prep	3005A			70786	11/30/20 02:11	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	73225	12/04/20 15:45	SB	ELLE
Total/NA	Prep	3005A			70659	11/26/20 02:41	UJL8	ELLE
Total/NA	Analysis	6020A		1	71089	11/30/20 14:30	BMB	ELLE
Total/NA	Analysis	2320B-2011		1	71805	12/01/20 19:00	JB	ELLE
Total/NA	Analysis	353.2		1	73958	12/07/20 15:41	UJE2	ELLE

Client Sample ID: TB204-70

Date Collected: 11/24/20 10:00

Date Received: 11/25/20 12:05

Lab Sample ID: 410-22058-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	73609	12/06/20 19:28	USEJ	ELLE
Total/NA	Prep	8011			72382	12/03/20 00:05	K2IL	ELLE
Total/NA	Analysis	8011		1	73256	12/04/20 22:48	AC3T	ELLE

Client Sample ID: ER204-04

Date Collected: 11/20/20 11:00

Date Received: 11/25/20 12:05

Lab Sample ID: 410-22058-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	73000	12/04/20 15:11	K4WN	ELLE
Total/NA	Prep	8011			72382	12/03/20 00:05	K2IL	ELLE
Total/NA	Analysis	8011		1	73256	12/04/20 23:05	AC3T	ELLE
Total Recoverable	Prep	3005A			70786	11/30/20 02:11	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	72818	12/03/20 17:07	UCIG	ELLE
Total Recoverable	Prep	3005A			70786	11/30/20 02:11	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	73225	12/04/20 15:49	SB	ELLE
Total/NA	Prep	3005A			70659	11/26/20 02:41	UJL8	ELLE
Total/NA	Analysis	6020A		1	71089	11/30/20 14:28	BMB	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Client Sample ID: TB204-71

Lab Sample ID: 410-22058-4

Date Collected: 11/24/20 17:15

Matrix: Water

Date Received: 11/25/20 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	73609	12/06/20 19:48	USEJ	ELLE
Total/NA	Prep	8011			72382	12/03/20 00:05	K2IL	ELLE
Total/NA	Analysis	8011		1	73256	12/04/20 23:22	AC3T	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	12-31-20

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	ELLE
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
8011	Microextraction	SW846	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-22058-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-22058-1	GW080-204	Water	11/24/20 13:48	11/25/20 12:05	
410-22058-2	TB204-70	Water	11/24/20 10:00	11/25/20 12:05	
410-22058-3	ER204-04	Water	11/20/20 11:00	11/25/20 12:05	
410-22058-4	TB204-71	Water	11/24/20 17:15	11/25/20 12:05	

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410-22058 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1925		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-080-204		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111				Lab PO Number: 21295				LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258				QUARTER: 4 (Oct-Dec)				
				ANALYSIS REQUIRED (Specify number of bottles)												
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (3000)	Nitrate-Nitrite (3532)	Alkalinity (Total, Carbonate, and Bicarbonate) (5M2320B)	Carbon Dioxide (RSC-175)	Methane (RSC-175)	COMMENTS
1	GW080-204	11-24-2020 <i>GB</i>	1348	10	3			2	1	1*	1	1	1			
2																
3																
4																
5																
6																
COMMENTS: *Dissolved Fe, Mn aliquot was field filtered																
Pump: SN 1807B-710 SAMPLER(S): <i>GB</i> <i>D. Schmitt G. Begaye</i> RELINQUISHED BY: <i>GB</i> <i>D. Schmitt G. Begaye</i> <i>11-24-2020</i> <i>1600</i> COURIER AND SHIPPING NUMBER: FedEx 7721 7734 6220 RECEIVED BY: <i>Zane Hollinger</i> <i>11/24/20</i> <i>12:05</i>																

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225 Schilling Circle Suite
400 Hunt Valley MD
Tel No: (410) 584-7000
Fax No: (410) 771-1825

PROJECT NAME:
Kirtland AFB Bulk Fuels Facility

PROJECT NUMBER:
6360401

LABORATORY NAME AND CONTACT:
**Eurofins Lancaster Laboratories
2425 New Holland Pike Lancaster PA 17601**

FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA
Amanda Smith: asmith@eaest.com EA
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA

PROJECT SITE AND PHASE: ST106/SS111

LAB PO NUMBER: 21295

LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 556-7258

COC NUMBER
COC-ER204-04

YEAR: 2020
QUARTER: 4

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs (8250C)	BTEX (8260C)	EDB (8011)	Total As, Pb, Cd, K, Na, Mg (8020Ae010C)	Dissolved Fe, Mn (8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (SM2320B)			
1	ER204-04	11-20-2020	1100	6	3	—	2	1							GD 11-20-2020
2															
3															
4															
5															

Please add Fe and Mn to total metals analysis.

Associated with GW080-204

Pump Serial Number: SN 1807B-710

TB204-710

SAMPLER(S): G-Begaye		COURIER AND SHIPPING NUMBER: FedEx: 7721 8052 7237	
RELINQUISHED BY:	DATE	RECEIVED BY:	DATE
Printed Name and Signature: Galveston Begaye	11-24-2020	Printed Name and Signature:	11/29/20
Printed Name and Signature:		Printed Name and Signature:	
Printed Name and Signature:		Printed Name and Signature: Leah Foreman	11/29/20

TR

EA		225 Shilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/EDD TO: Tara Liment: tlimond@easst.com EA Aminda Smith: amsmith@easst.com EA		COC-TB204-71							
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kay Hower KayHower@eurofinsUS.com Eurofins 1 (717) 566-7258		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@easst.com EA		YEAR: 2020 QUARTER: 4							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (2260C)	BTEX (2260C)	BTEN (2260C)	EDB (2260C)	Total As, Pb, Cu, Cd, Ni, Mn (2011)	Disolved Fe, Mn (6020A6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Ammonia/ Total Carbonate and Bicarbonate (354.2)	COMMENTS	
1	TB204-71	11-24-2020	1715	4	2	—	—	2	—	—	—	—	—		
2															
3															
4															
5															
Associated with: ER204-04															
Pump SN-1807B-710*															
SAMPLER(S): G. Beyne				COURIER AND SHIPPING NUMBER: FedEx: 7721 8052 7237											
REINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: Gabeirson Beyne				11-24-2020		1815		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature: Leah Foreman				11/25/20		1151	

JR

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-22058-1

Login Number: 22058**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Rivera, Tatiana**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

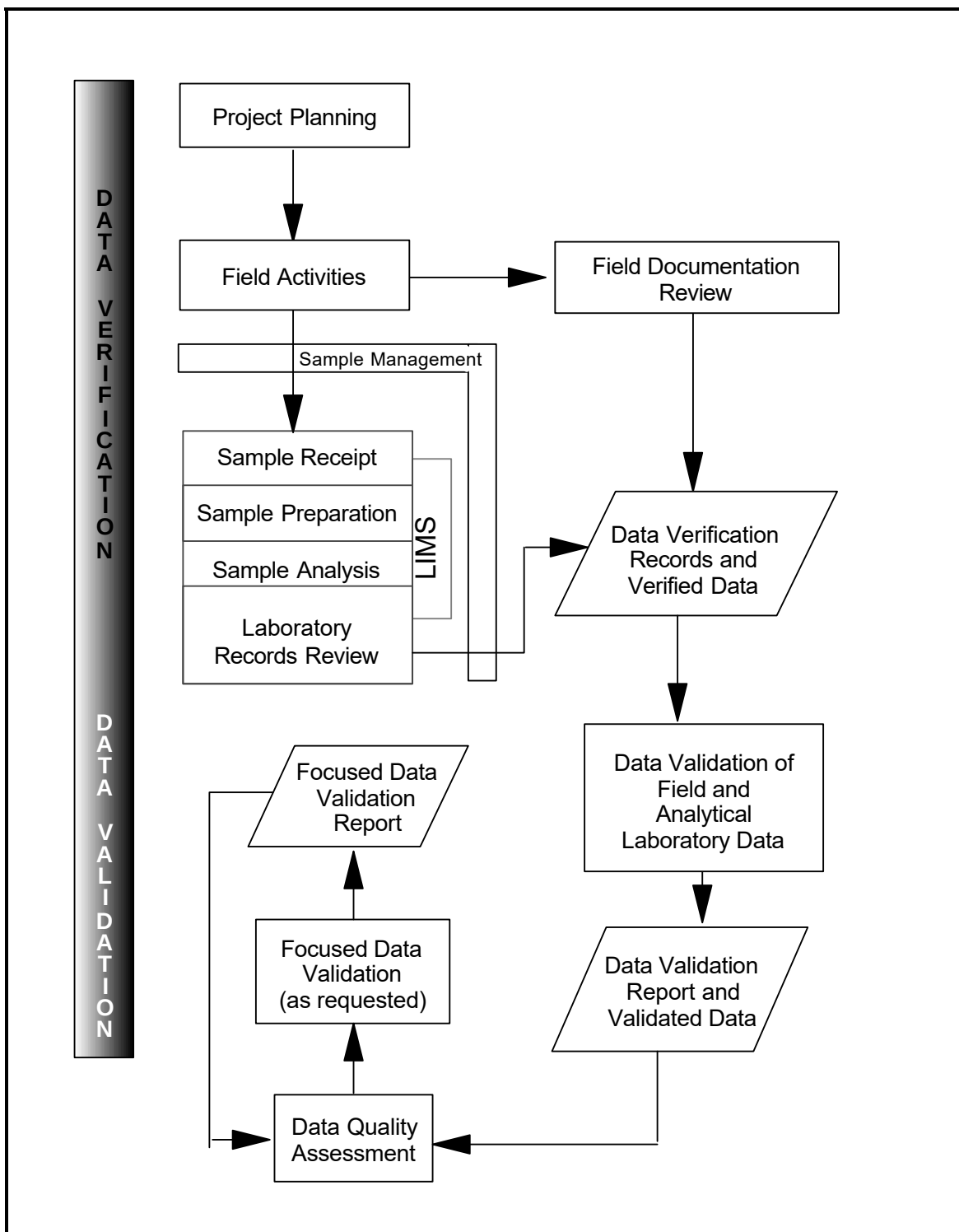


Figure 2. Data Verification and Data Validation Components in the Project Life Cycle

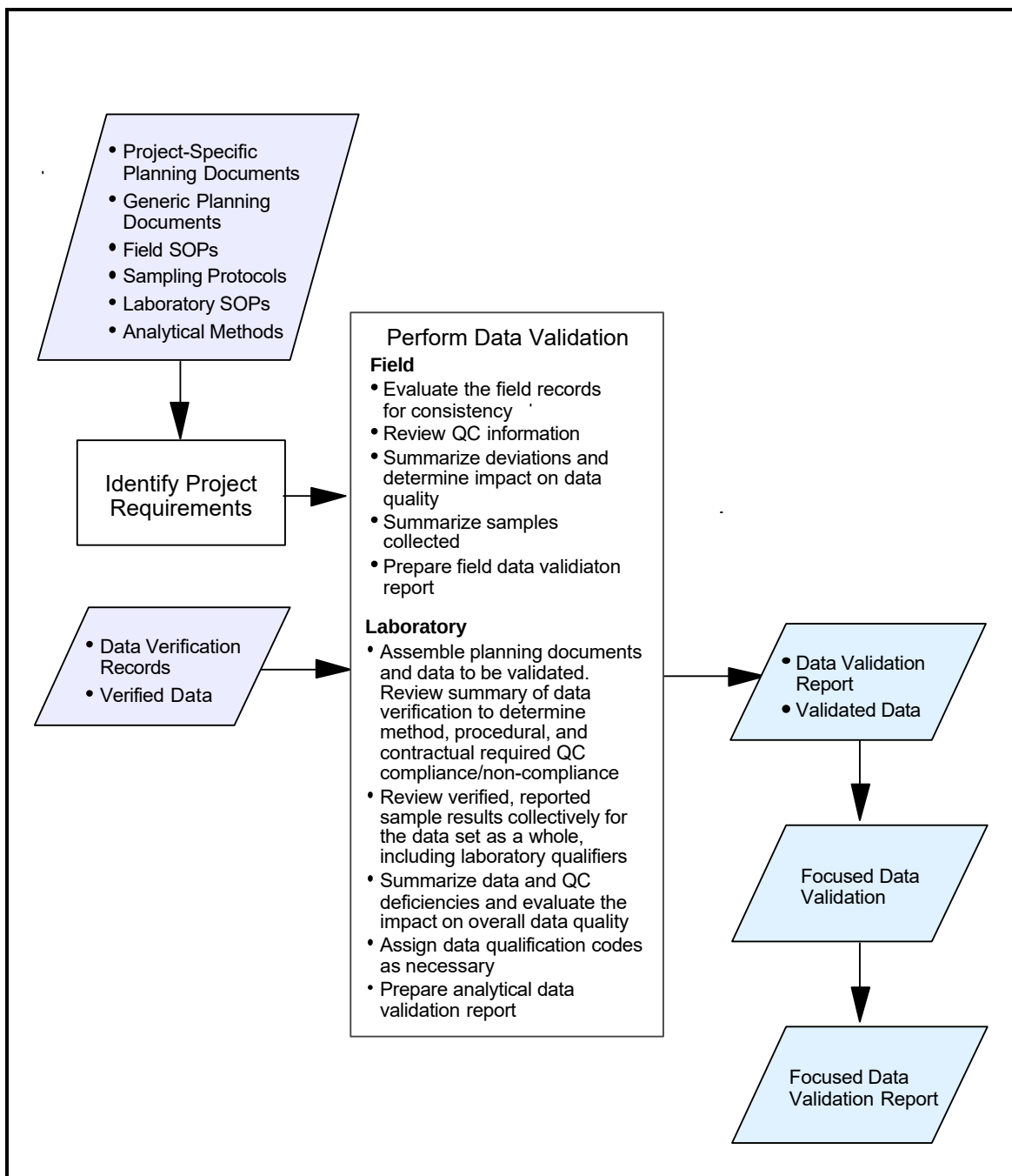
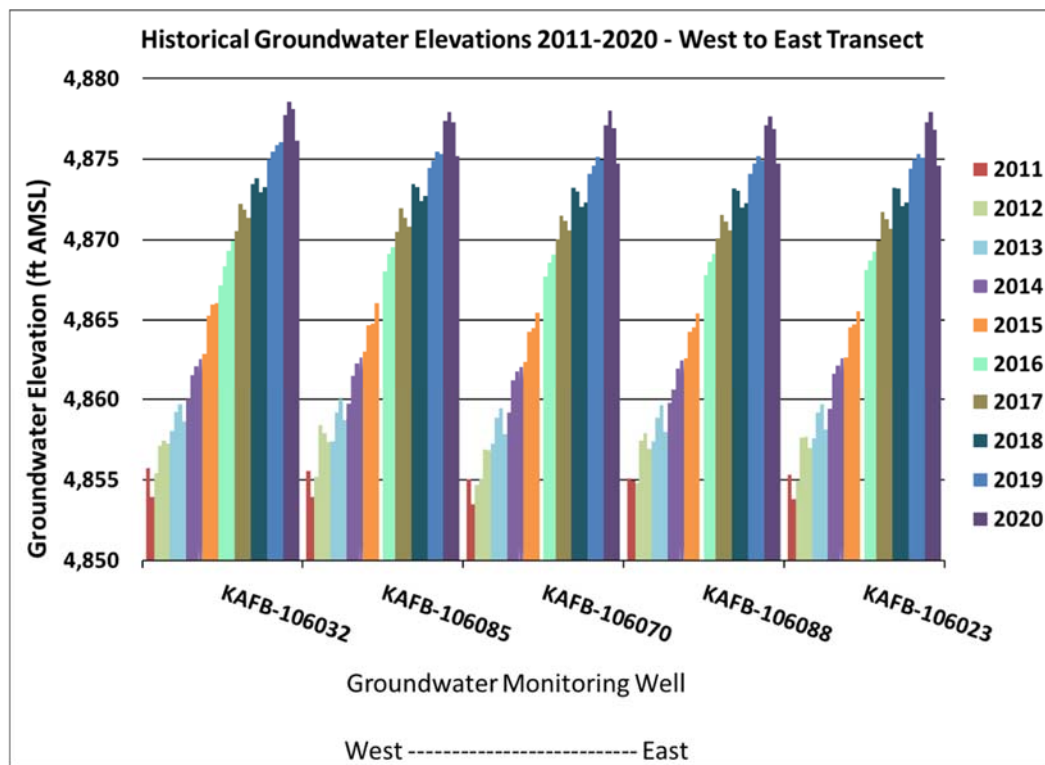
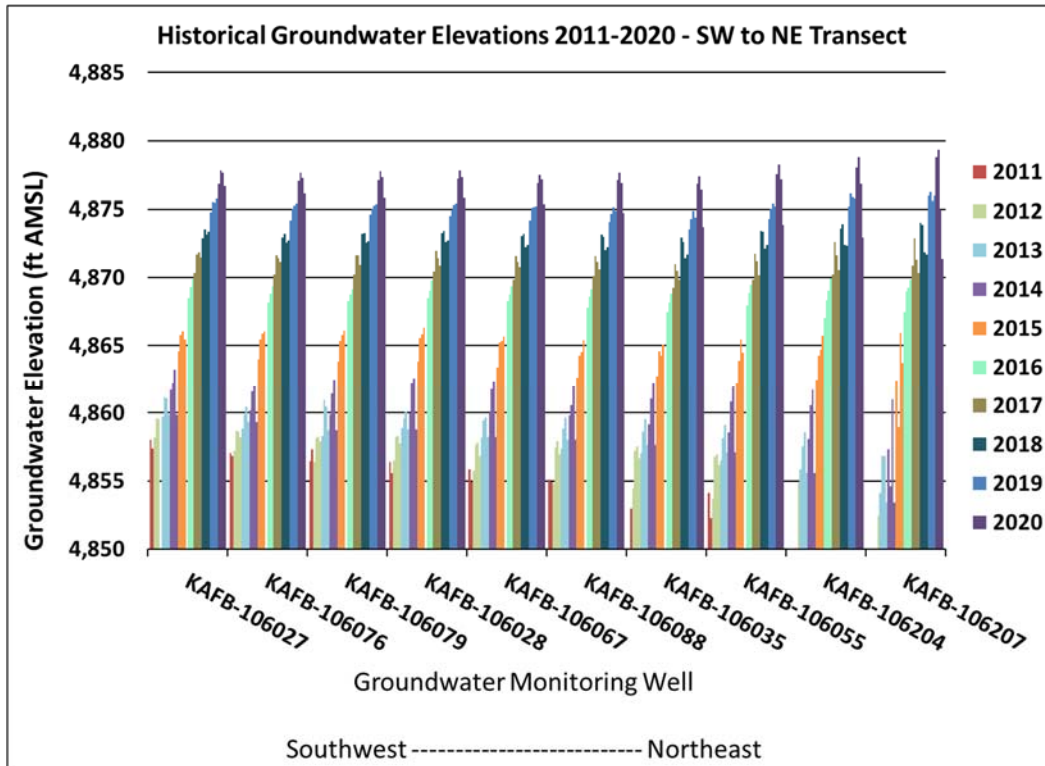
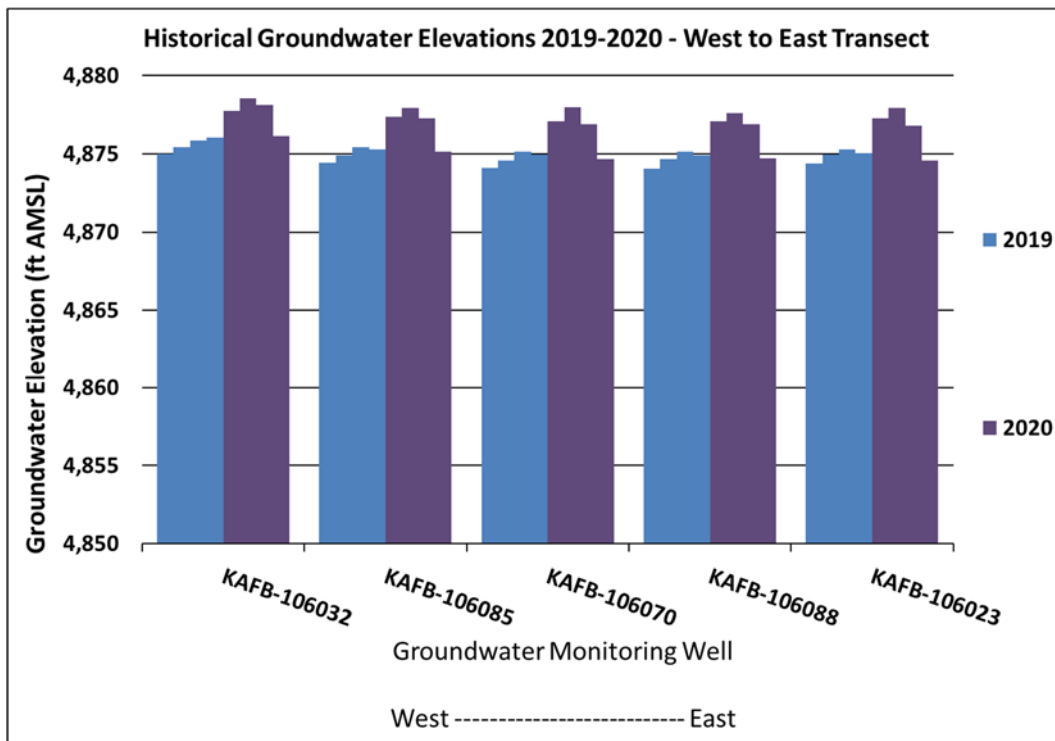
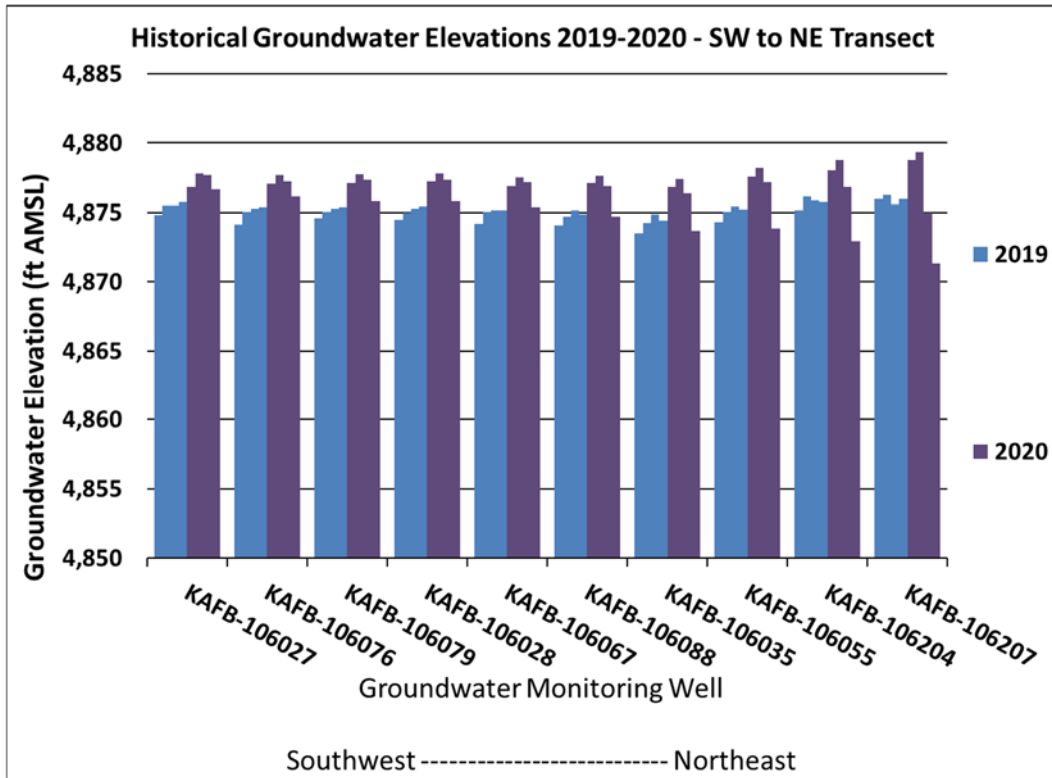


Figure 4. Data Validation Process

Appendix F-6 Water Level Time-Series Graphs, Q4 2020



Appendix F-6 Water Level Time-Series Graphs, Q4 2020



DATE: 10/6/2020

WEATHER: Clear (sunny), warm

Reviewed by:

Reviewed date:

10/13/2020

4. WORK PERFORMED (Continued)	
1025	Arrive at KAFB-003
1030	Sample at KAFB-003
1055	Arrive at VA-2
1117	Sample at VA-2
1145	Return to field trailer for shipping + end of day

Ginny Bracht
Name

Signature _____

DQCR Page 2 of 2

Reviewed by:

Reviewed date: 10/13/2020

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring -- 62599DM01
Daily Quality Control Report - Non-Construction

ROLE: Drinking water sampling

DATE: 11/3/2020

WEATHER: Partly cloudy, cool

1. ONSITE PERSONNEL (including subcontractors and government employees)		
Name	Organization	
B. Bockisch	EA - Site Manager/Supervisor	
P. Ferran	EA - Site Health and Safety Office	
G. Bucht	Sample team, EA	
J. Hamm	Sample team, EA	
GB		
2. OPERATING EQUIPMENT		
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 ☒	YSI Professional Plus 15K101396 ☐	YSI Professional Plus 15L100541 ☐
WH0003	WH0001	WH0002
MiniRAE 3000 592-915778 ☐	MiniRAE 3000 592-915790 ☐	MiniRAE 3000 592-915579 ☐
WH0005	WH0004	WH0006
Geotech Turbidimeter 18081855 ☐	Hach 2100Q 15100C044633 ☐	Hach 2100Q 15100C045025 ☒
	WH0009	WH0007
Solinst Water Level Meter 253056 ☐	Solinst Water Level Meter 253053 ☐	Geotech Interface Probe 0001 ☐
	WH0012	
3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)		
Sample KAFB-016, KAFB-015, KAFB-003, and VA-2		
Duplicate at VA-2.		
GB		
4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)		
0901	Arrive at KAFB-016	
0915	Sample KAFB-016	
0920	Arrive at KAFB-015	
0930	Sample KAFB-015	

DQCR Page 1 of 2

Reviewed by: DSchuelek

Reviewed date: 11-3-2020

5. **CONTRACTOR'S VERIFICATION:** I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.


Signature

EA Engineering, Science and Technology Inc., PBC

DQCR Page 2 of 2

Initials:

Reviewed date: 11-3-2020

62735 DM02
62599 DM01 GB

Kirtland AFB Bulk Fuels Facility GWTS Expansion/Monitoring --
Daily Quality Control Report - Non-Construction

ROLE: Team #1

DATE: 12-01-2020

WEATHER: 51°F Sunny SSE 5 MPH

1. ONSITE PERSONNEL (including subcontractors and government employees)

Name	Organization
Bernard Bucksch	EA - Site Manager/Supervisor
Peter Ferrari	EA - Site Health and Safety Office
Gabriel Bezye	TECH III
Amy Rosebrough	GEO I
GB	

2. OPERATING EQUIPMENT

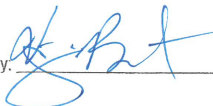
Team #1	Team #2	Spare
YSI Professional Plus 18L100378 WH0003 ☒	YSI Professional Plus 15K101396 WH0001 ☒	YSI Professional Plus 15L100541 WH0002 ☐
MiniRAE 3000 592-915778 WH0005 ☐	MiniRAE 3000 592-915790 WH0004 ☒	MiniRAE 3000 592-915579 WH0006 ☐
Geotech Turbidimeter 18081855 WH0009 ☒	Hach 2100Q 15100C044633 WH0009 ☒	Hach 2100Q 15100C045025 WH0007 ☒
Solinst Water Level Meter 253056 WH0012 ☐	Solinst Water Level Meter 253053 WH0012 ☒	Geotech Interface Probe 0001 ☐

3. DAILY SUMMARY (include QC samples collected, deviations from planning documents, conversations with the public and governmental employees, and problems encountered and remedies applied)

Drinking water samples: KAFB-016, KAFB-015, KAFB-003, KAFB-VA-2
GB

4. WORK PERFORMED (Indicate location, time, and description of work performed by prime and/or subcontractors)

0927	left trailer to well KAFB-016
0928	Arrived at well KAFB-016
0933	sample KAFB-016
0959	leave KAFB-016 for KAFB-015

Reviewed by: 

DQCR Page 1 of 2

Reviewed date: 1/26/21

4. WORK PERFORMED (Continued)

DATE: 12-01-2020

[illegible]

5. **CONTRACTOR'S VERIFICATION:** I certify that to the best of my knowledge the above report is complete and correct. All equipment used, and work performed during this reporting period is in compliance with the contract plans and specifications noted above.

above.
 Calvin Bezzel
 Name

Signature _____

EA Engineering, Science and Technology Inc., PBC

Reviewed by:

DQCR Page 2 of 2

Initials-

Reviewed date: 1/26/21



Drinking Water Supply Sampling Log

Year: 2020
Quarter: 4 - October

Project: Kirtland AFB BFF ST-106/SS-111

Well ID:

KAFB-003

Purge Information and Field Parameter

Date: 10-06-2020

Sample Team: GB/ESA

Sample Team Signature

Purge Start Time: 0930
~~0700 10/5/2020* GB~~

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
1030	0.17	21.1	49.4	4.26	431.9	7.88	147.5

Sample Time: 1030

Sample Date: 10-06-2020

Bubbles in the vials?: ☐ Yes

☒ No

Where? _____

Amount _____

Size _____

6mm

Sampled by:

ESA, GB

Sample ID:	GWK003-2041	Duplicate Sample ID (if applicable):	GWK003-6041
COC:	COC-K003-2041		

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments:

^{GB}
*Per Kirtland Water plant, well has been running for over 24 hrs. Personnel on-site upon arrival at 1025 stated well has been running for an hour.

Reviewed by:

dm

Review Date:

10/13/2020

Page 1 of 1



Drinking Water Supply Sampling Log

Project: Kirtland AFB BFF ST-106/SS-111Well ID: KAFB-015Year: 2020Quarter: 4 - October**Purge Information and Field Parameter**Date: 10/6/2020Sample Team: GB, EASample Team Signature: [Signature]Purge Start Time: 0830

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
1000	0.30	26.1	6.7	0.54	479.6	7.86	126.6

Sample Time: 1000 Sample Date: 10/06/2020Bubbles in the vials?: ☐ Yes ☒ No Where? — Amount — Size —

6mm

Sampled by: GB, EA

Sample ID:	GWK015-2041	Duplicate Sample ID (if applicable):	GWK015-6041
COC:	COC-K015-2041		

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments: —Reviewed by: [Signature]Review Date: 10/13/2020

Page 1 of 1



Drinking Water Supply Sampling Log

Year: 2020

Quarter: 4 - October

Project: Kirtland AFB BFF ST-106/SS-111

Well ID: KAFB-016

Purge Information and Field Parameter

Date: 10/6/2020

Sample Team: GB, EA

Sample Team Signature:

Purge Start Time: 0815

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
0915	0.71	25.3	8.0	0.62	513	7.78	141.8

Sample Time: 0915

Sample Date: 10/6/2020

Bubbles in the vials?: ☐ Yes☒ No

Where? _____

Amount _____

Size _____

6mm

Sampled by: GB, EA

Sample ID:	GWK016-2041	Duplicate Sample ID (if applicable):	GWK016-6041
COC:	COC-K016-2041		

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments: _____

Reviewed by:

Review Date: 10/13/2020

Page 1 of 1

Quarter: 4 - October

ST106-VA-2

Date: 10-06-2020

Sample Team Signature

Purge Start Time: 1053

Sample Time: 1117 Sample Date: 10-06-2020

Bubbles in the vials?: ☐ Yes ☒ No Where? _____ Amount _____ Size _____ 6mm

Sampled by: ETA, GB

Comments:

Review Date:

10/13/2020

March 2021



Drinking Water Supply Sampling Log

Year: 2020

Quarter: 4 - November

Project: Kirtland AFB BFF ST-106/SS-111

Well ID:

KAFB-003

Purge Information and Field Parameter

Date: 11/03/2020

Sample Team: G. Bracht, J. Hammon

Sample Team Signature

Purge Start Time: 0700 11/2/2020*

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
1000	0.16	20.3	47.9	4.26	172.6	7.81	308.6

Sample Time: 1000 Sample Date: 11/3/2020

Bubbles in the vials?: ☐ Yes ☒ No Where? Amount Size

6mm

Sampled by: G. Bracht

Sample ID:	GWK003-2042	Duplicate Sample ID (if applicable):	GWK003-6042
COC:	COC-K003-2042		

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments: ^R Per Kirtland Water Plant, well has been pumping for at least 24 hrs.

Reviewed by: D. Schmeelk

Review Date: 11-3-2020

Page 1 of 1



Drinking Water Supply Sampling Log

Year: 2020

Quarter: 4 - November

Project: Kirtland AFB BFF ST-106/SS-111

Well ID: KAFB-015

Purge Information and Field Parameter

Date: 11/03/2020

Sample Team: G. Bracht, J. Hamm

Sample Team Signature

Purge Start Time: 0830

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
0930	0.13	25.6	8.8	0.73	356.2	7.087	154.3

Sample Time: 0930 Sample Date: 11/03/2020

Bubbles in the vials?: ☐ Yes ☒ No Where? Amount Size 6mm

Sampled by: GB

Sample ID: GWK015-2042

Duplicate Sample ID (if applicable):

GWK015-6042

COC: COC-K015-2042

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments:

Reviewed by: D. Schweelk

Review Date: 11-3-2020

Page 1 of 1



Drinking Water Supply Sampling Log

Year: 2020

Quarter: 4 - November

Project: Kirtland AFB BFF ST-106/SS-111

Well ID: KAFB-016

Purge Information and Field Parameter

Date: 11/03/2020

Sample Team: G. Bracht, J. Hamm

Sample Team Signature

Purge Start Time: 0820

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
0915	0.58	24.5	11.2	0.93	246.7	7.16	179.5

Sample Time: 0915

Sample Date: 11/03/2020

Bubbles in the vials?: ☐ Yes ☒ No

Where? —

Amount —

Size —

6mm

Sampled by: GB

Sample ID:	GWK016-2042	Duplicate Sample ID (if applicable):	GWK016-6042
COC:	COC-K016-2042		

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments:

Reviewed by: D. Schmeelk

Review Date: 11-3-2020

Page 1 of 1



Drinking Water Supply Sampling Log

Year: 2020

Quarter: 4 - November

Project: Kirtland AFB BFF ST-106/SS-111

Well ID:

ST106-VA-2

Purge Information and Field Parameter

Date: 11/3/2020

Sample Team: G. Bradet, J. Hannon

Sample Team Signature

Purge Start Time: 1027

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
1047	0.26	21.5	16.9	1.48	181.9	7.74	339.7

Sample Time: 1047 Sample Date: 11/3/2020

 Bubbles in the vials?: ☐ Yes ☒ No Where? — Amount — Size —
 6mm

Sampled by: GB

Sample ID: GWVA2-2042

Duplicate Sample ID
(if applicable):

GWVA2-6042

COC: COC-VA2-2042

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments:

Reviewed by: D. Schuelek

Review Date: 11-3-2020

Page 1 of 1



Drinking Water Supply Sampling Log

Year: 2020
Quarter: 4 - December

Project: Kirtland AFB BFF ST-106/SS-111

Well ID: KAFB-003

Purge Information and Field Parameter

Date: 12/01/2020

Sample Team: Team 1

Sample Team Signature: [Signature]

Purge Start Time: 0800

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
<u>1105</u> 1205 AR	<u>1.19</u>	<u>19.9</u>	<u>47.3</u>	<u>4.39</u>	<u>267.5</u>	<u>7.89</u>	<u>241.8</u>

Sample Time: 1205 AR 1105 Sample Date: 12/01/2020

Bubbles in the vials?: ☐ Yes ☒ No Where? N/A Amount N/A Size N/A
6mm

Sampled by: Galveston Beggs

Sample ID:	<u>GWK003-2043</u>	Duplicate Sample ID (if applicable):	<u>GWK003-6043</u>
COC:	<u>COC-K003-2043</u>		

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments: _____

Reviewed by: [Signature]

Review Date: 1/26/21

Page 1 of 1



Drinking Water Supply Sampling Log

Year: 2020
Quarter: 4 - December

Project: Kirtland AFB BFF ST-106/SS-111

Well ID: KAFB-015

Purge Information and Field Parameter

Date: 12/01/2020

Sample Team: Team 1

Sample Team Signature: *[Signature]*

Purge Start Time: 0955

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
1010	0.60	23.4	9.1 17.0 <i>AR</i>	0.78 1.3 <i>AR</i>	420.2	7.96	96.9

Sample Time: 1010 Sample Date: 12/01/2020

Bubbles in the vials?: ☐ Yes ☒ No Where? N/A Amount N/A Size N/A
6mm

Sampled by: G Begay

Sample ID:	GWK015-2043	Duplicate Sample ID (if applicable):	GWK015-6043
COC:	COC-K015-2043		

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments:

Reviewed by: *[Signature]*

Review Date: 1/26/21

Page 1 of 1



Drinking Water Supply Sampling Log

Year: 2020
Quarter: 4 - December

Project: Kirtland AFB BFF ST-106/SS-111

Well ID:

KAFB-016

Purge Information and Field Parameter

Date: 12/01/2020

Sample Team: Team 1

Sample Team Signature

Purge Start Time: 0915

Time	Turbidity (NTU)	Temp. (°C)	Saturated DO (%)	DO (mg/L)	Specific Conductance (µS/cm)	pH	ORP (mV)
0933	4.63 7.63 0.99	21.2	7.2	0.63	464.7	7.46	162.0

Sample Time: 0933 Sample Date: 12/01/2020

Bubbles in the vials?: ☐ Yes ☒ No Where? NA Amount NA Size NA 6mm

Sampled by: G. Biggs

Sample ID:	GWK016-2043	Duplicate Sample ID (if applicable):	GWK016-6043
COC:	COC-K016-2043		

Contact Information

For wells KAFB-003, KAFB-015, and KAFB-016: Call Mark Dalzell at 505-228-8595

For well ST106-VA-2: Call Tim Melody 505-991-3876

Comments:

Reviewed by: [Signature]

Review Date: 1/26/21

Page 1 of 1

Year:	2020
Quarter:	4 - December

Well ID:

ST106-VA-2

Date: 12/01/2020

Sample Team Signature

1140

Sample Time: 1200 Sample Date: 12/01/2020

Sampled by: G. Begany

Contact Information

For well ST106-VA-2: Call Tim Melody 505-991-3876

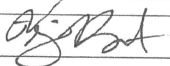
Comments:

Reviewed by:

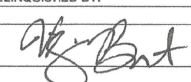
Review Date: 1/26/2021

Page 1 of 1

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER <b style="background-color: yellow;">COC-K003-2041									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858		YEAR: 2020 QUARTER: 4 - October									
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(EPA Method 824.2) VOCs	(EPA Method 824.2) BTEX	(EPA Method 824.2) BTEXN	(EPA Method 804.1) EDB	Total (As, Pb, Cd, Cr, Ni, Mn, Mg)	(6020A/6010C) Dissolved Fe, Mn	(6010C) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(450.0A) Ammonia Nitrogen (2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(450.0A) Sulfide	COMMENTS
1	GWK003-2041	10/6/2020	1030	6	-	3	-	3							
2															
3															
4															
5															
6															
SAMPLER(S): <i>G. Bracht, E. Andelman</i>								TB2041- 02							
RELINQUISHED BY:								COURIER AND SHIPPING NUMBER:							
DATE:								RECEIVED BY:							
TIME:								DATE:							
Printed Name and Signature:								Printed Name and Signature:							
<i>GINNY BRACHT</i>								10/6/2020 1500							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1925		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-K015-2041								
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020						
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858		QUARTER: 4 - October								
				ANALYSIS REQUIRED (Specify number of bottles)										
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (EPA Method 821.2)	BTEX (EPA Method 821.2)	EDB (EPA Method 821.2)	Total (As, Pb, Cu, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Ammonia Nitrogen (4500NH3BC) (2320B)	Alkalinity (Total, Carbonate, and Bicarbonate)	COMMENTS
1	GWK015-2041	10/6/2020	1000	6	3	1	3							
2														
3														
4														
5														
6														
SAMPLER(S): G. Bracht, E. Andelman				COURIER AND SHIPPING NUMBER: FedEx 1864 9067 7244										
RELINQUISHED BY:				RECEIVED BY:										
DATE:				DATE:										
TIME:				TIME:										
Printed Name and Signature: GINNY BRACHT 				Printed Name and Signature:										
DATE: 10/6/2020				DATE:										
TIME: 1500				TIME:										
Printed Name and Signature:				Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature:										
Printed Name and Signature:				Printed Name and Signature:										

EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K016-2041				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929				LAB CONTACT: 1 (912) 354-7858				QUARTER: 4 - October						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (EPA Method 524.2)	BTEX (EPA Method 524.2)	BTEXN (EPA Method 524.2)	EDB (EPA Method 504.1)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Ammonia Nitrogen (4500NH3BC) (2320B)		(4500 SCF) Sulfide	
1	GWK016-2041	10/6/2020	0915	18	-	9	-	9								Additional volume provided for MS/MSD
2																
3																
4																
5																
6																
SAMPLER(S): G. Bracht, E. Andelman				COURIER AND SHIPPING NUMBER: TB2041- 02				FedEx 1347 4018 5668								
RELINQUISHED BY:				DATE				TIME				RECEIVED BY:				
Printed Name and Signature: GORDY BRACHT				10/6/2020				1500				Printed Name and Signature:				
Printed Name and Signature:												Printed Name and Signature:				
Printed Name and Signature:												Printed Name and Signature:				
Printed Name and Signature:												Printed Name and Signature:				

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-VA2-2041			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 - October			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 18929				LAB CONTACT: 1 (912) 354-7858							
ANALYSIS REQUIRED (Specify number of bottles)															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (EPA Method 524.2)	BTEX (EPA Method 524.2)	EDB (EPA Method 524.2)	Total (As, Pb, Cd, K, Na, Mg) (EPA Method 504.1)	Dissolved Fe, Mn (6010C) (8020A/610C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Ammonia Nitrogen (4500-NH3B) (2309) (Total, Carbonate, and Bicarbonate)	Alkalinity (4500-SZCF) Sulfide	COMMENTS	
1	GWVA2-2041	10/6/2020	11 17	6	-	3	-	3							
2															
3															
4															
5															
6															
SAMPLER(S): G. Bracht, E. Andelman								COURIER AND SHIPPING NUMBER: FedEx 1864 9067 7244							
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME	
Printed Name and Signature: GINNY BRACHT 				10/6/2020		1500		Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							
Printed Name and Signature:								Printed Name and Signature:							

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB2041-01	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858		YEAR: 2020 QUARTER: 4 - October	
ANALYSIS REQUIRED (Specify number of bottles)							
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(EPA Method 8242) BTEX	(EPA Method 8242) BTEXN	COMMENTS
1	TB2041- 01	10/6/2020	0810	4	2	2	
2							
3							
4							
5							
6							
Associated with: GWVAZ-2041 GWK015-2041							
SAMPLER(S): G. Bracht				COURIER AND SHIPPING NUMBER: FedEx 1864 9067 7244			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: GWINY BRACHT		10/6/2020	1500	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB2041-02	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 18929				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 - October			
LAB CONTACT: 1 (912) 354-7858															
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
				Total Number of Bottles	VOCs	(EPA Method 824.2) BTEX	(EPA Method 824.2) BTEXN	(EPA Method 824.2) EDB	(EPA Method 504.1) Total (As, Pb, Cd, K, Na, Mg)	(6010C) Dissolved Fe, Mn	(6020A/6010C) Chloride, bromide, sulfate	(353.2) Nitrate-Nitrite	(353.2) Nitrate-Nitrite	(4500-NH3B/C) Ammonia Nitrogen	(4500-SO3P) Sulfide
1	TB2041-02	10/6/2020	0810	4	-	2	-	2							
2															
3															
4															
5															
6															
Associated with: GWK 016-2041 GWK 003-2041															
SAMPLER(S): G. Bracht				COURIER AND SHIPPING NUMBER: FedEx 1347 4018 5668											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: GINNY BRACHT				10/6/2020	1500	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									

		225 Scrolling Circle Suite 400 Ryan Valley MD Tel No: (410) 554-7000 Fax No: (410) 771-1055		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K015-2041				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601										FAX AND MAIL REPORTS/EDD TO: Tara Lamont: tlamontd@east.com EA Amanda Smith: asmith@east.com EA prms@east.com EA		YEAR: 2020		
PROJECT SITE AND PHASE: ST106SS111		LAB PO NUMBER: 21296		LAB CONTACT: Katie Hower katiehower@eurofinsus.com Eurofins 1 (717) 556-7258										QUARTER: 4 - October				
				ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Ammonia (SM4500NH3)	Sulfide (SM4500S2CF)	Alkalinity (SM2320B)	COMMENTS		
1	GWK015-2041	10/16/2020	1000	7					1	1*	1	1	1	1	1			
2																		
3																		
4																		
5																		
6																		
* Dissolved Fe, Mn aliquot was field filtered																		
SAMPLER(S): G. Bracht, E. Andelman				COURIER AND SHIPPING NUMBER: FedEx 8156 5977 6739														
RELINQUISHED BY:				RECEIVED BY:														
Printed Name and Signature: GUNNY BRACHT		DATE 10/16/2020		TIME 1500		Printed Name and Signature:											DATE TIME	
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:											DATE TIME	
Printed Name and Signature:		DATE		TIME		Printed Name and Signature:											DATE TIME	

 225 Seeling Circle Suite 400 Plant Valley Road Tel No: (410) 594-7000 Fax No: (410) 771-1025				CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-VA2-2041		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601		FAX AND MAIL REPORTS/IEDD TO: Tara Lamont: talamont@eas.com EA Amara Smith: asmith@eas.com EA pmos@eas.com EA		FAX AND MAIL REPORTS/IEDD TO: Pam Moss: pmos@eas.com EA		YEAR: 2020		QUARTER: 4 - October				
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21236		LAB CONTRACT: Katie Hower KatieHower@eurofins.com		Eurofins 1 (717) 556-7258								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Ammonia (SM4500NH3)		Sulfide (SM4500S2CF)	Alkalinity (SM2320B)
1	GWVA2-2041	10/6/2020	1117	7						1	1*	1	1	1	1	
2																
3																
4																
5																
6																
*Dissolved Fe, Mn aliquot was field filtered																
SAMPLER(S): G. Badt, E. Andelman				COURIER AND SHIPPING NUMBER: FedEx 8156 5977 6739												
RELINQUISHED BY:				DATE		TIME		PRINTED NAME AND SIGNATURE:				DATE		TIME		
GIVIN BEACH				10/6/2020		1500										
PRINTED NAME AND SIGNATURE:								PRINTED NAME AND SIGNATURE:								
PRINTED NAME AND SIGNATURE:								PRINTED NAME AND SIGNATURE:								
PRINTED NAME AND SIGNATURE:								PRINTED NAME AND SIGNATURE:								

		225 Sealing Circle Suite 400 Hunt Valley MD Tel No: (410) 594-7000 Fax No: (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K016-2041			
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601										FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eurofins.com Amanda Smith: asmith@eurofins.com FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eurofins.com EA		YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTRACT: Katie Hower katiehowe@eurofins.com Eurofins 1 (717) 556-7293										QUARTER: 4 - October			

ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
					VOCs (8260C)	BTEX (8260C)	BTEXN (8260C)	EDB (8011)	Total (As,Pb,Ca,K,Na,Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Ammonia (SM4500NH3)	Sulfide (SM4500S2CF)		Alkalinity (SM2320B)	
1	GWK016-2041	10/6/2020	0915	11						3	3*	1	1	1	1	1	See Comments for requested MS/MSD analytes
2																	
3																	
4																	
5																	
6																	

* Dissolved Fe, Mn aliquot was field filtered

Please run MS/MSD on the following analytes only: Total As and Pb, and dissolved Mn and Fe

SAMPLER(S): **G. Bracht, J.E. Andelman**

RELINQUISHED BY:		DATE		TIME		CARRIER AND SHIPPING NUMBER:		RECEIVED BY:		DATE		TIME	
Printed Name and Signature:						FedEx 8156 5977 6728		Printed Name and Signature:					
GUYU BRACHT								OK B		10/6/2020		1500	
Printed Name and Signature:								Printed Name and Signature:					
Printed Name and Signature:								Printed Name and Signature:					
Printed Name and Signature:								Printed Name and Signature:					

		225 Sealing Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K003-2041							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601										FAX AND MAIL REPORTS/EDD TO: Tara Lamont: tlamont@eas.com Amanda Smith: asmith@eas.com FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eas.com EA		YEAR: 2020					
PROJECT SITE AND PHASE: ST106SS111		LAB PO NUMBER: 21235		LAB CONTACT: Kate Hower katehower@eurofinsus.com Eurofins 1 (717) 556-7258										QUARTER: 4 - October							
ITEM				SAMPLE IDENTIFIER		DATE COLLECTED		TIME COLLECTED		ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	
										Total Number of Bottles VOCs (8260C) _____ BTEX (8260C) _____ BTEXN (8260C) _____ EDB (8011) _____ Total (As,Pb,Ca,K,Na,Mg) (6020A/6010C) _____ Dissolved Fe, Mn (6010C) _____ Chloride, bromide, sulfate (300.0) _____ Nitrate-Nitrite (353.2) _____ Ammonia (SM4500NH3) _____ Sulfide (SM4500S2CF) _____ Alkalinity (SM2320B) _____											
1				GWK003-2041		10/6/2020		1030		7											
2																					
3																					
4																					
5																					
6																					
*Dissolved Fe, Mn aliquot was field filtered																					
SAMPLERS:																					
G. Bracht, T. Andlauer																					
RELINQUISHED BY:																					
Printed Name and Signature:				DATE				TIME				COURIER AND SHIPPING NUMBER:									
G. Bracht				10/6/2020				1500				FedEx 8156 5977 6728									
RECEIVED BY:																					
Printed Name and Signature:				DATE				TIME													
Printed Name and Signature:																					
Printed Name and Signature:																					
Printed Name and Signature:																					
Printed Name and Signature:																					

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-K003-2042														
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		YEAR: 2020												
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858		QUARTER: 4 - November														
				ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(EPA Method 524.2) VOCs	(EPA Method 524.2) BTEX	(EPA Method 524.2) BTEXN	(EPA Method 504.1) EDB	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	(Total, Carbonate, and Bicarbonate) Alkalinity (2320B)	Ammonia Nitrogen (4500NH3BC)	(4500 S2CF) Sulfide	COMMENTS				
1	GWK003-2042	11/3/2020	1000	6	3	3														
2																				
3																				
4																				
5																				
6																				
SAMPLER(S): G. Bracht										COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2331										
RELINQUISHED BY:										DATE		TIME		RECEIVED BY:			DATE		TIME	
Printed Name and Signature: Ginny Bracht										11/3/2020		1400		Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						
Printed Name and Signature:														Printed Name and Signature:						

TB2042- 2

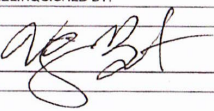
EA 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K015-2042					
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com Amanda Smith: asmith@eaest.com FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com				EA EA EA					
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858										YEAR: 2020 QUARTER: 4 - November			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS			
				Total Number of Bottles	VOCs (EPA Method 524.2)	BTEX (EPA Method 524.2)	BTEXN (EPA Method 524.2)	EDB (EPA Method 504.1)	Total (As, Pb, Cd, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Alkalinity, Alkalinity, and Bicarbonate (2320B)		Ammonia Nitrogen (4500-NH3C)	Sulfide (4500-SZCF)	
1	GWK015-2042	11/3/2020	0930	6	-	3	-	3									
2																	
3																	
4																	
5																	
6																	
SAMPLER(S): G. Bracht													COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2320				
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME						
Printed Name and Signature: GINNY BRACHT				11/3/2020	1400	Printed Name and Signature:											
Printed Name and Signature:						Printed Name and Signature:											
Printed Name and Signature:						Printed Name and Signature:											
Printed Name and Signature:						Printed Name and Signature:											

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-K016-2042									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA									
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858											
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (EPA Method 524.2)	BTEX (EPA Method 524.2)	EDB (EPA Method 524.2)	Total (As Pb, Cd, Ni, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (2320B)	Ammonia Nitrogen (4500NH3/C)	Sulfide (4500 S2/C)	COMMENTS
1	GWK016-2042	11/3/2020	0915	6	-	3	-	3							
2															
3															
4															
5															
6															
SAMPLER(S): <u>G. Bracht</u>								COURIER AND SHIPPING NUMBER: <u>FedEx 516 9325 2331</u>							
RELINQUISHED BY: _____ DATE _____ TIME _____								RECEIVED BY: _____ DATE _____ TIME _____							
Printed Name and Signature: <u>G. Bracht</u>								Printed Name and Signature: _____							
Printed Name and Signature: _____								Printed Name and Signature: _____							
Printed Name and Signature: _____								Printed Name and Signature: _____							
Printed Name and Signature: _____								Printed Name and Signature: _____							

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-VA2-2042	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Mcss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858		YEAR: 2020 QUARTER: 4 - November	

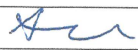
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	(EPA Method 524.2) VOCs	(EPA Method 524.2) BTEX	(EPA Method 524.2) BTXN	(EPA Method 504.1) EDB	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	(Total, Carbonate, and Bicarbonate) Alkalinity (4500H-HB/C) (2320B)		(4500) S2CF) Sulfide	
1	GWVA2-2042	11/3/2020	1047	6	-	3	-	3								
2	GWVA2-6042	11/3/2020	1047	6	-	3	-	3								
3																
4																
5																
6																

SAMPLER(S): G. Bracht			COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2320		
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:	
Printed Name and Signature: Ginny Bracht		11/3/2020	1400	Printed Name and Signature:	
Printed Name and Signature:				Printed Name and Signature:	
Printed Name and Signature:				Printed Name and Signature:	
Printed Name and Signature:				Printed Name and Signature:	

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD						COC NUMBER							
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA		COC-TB2042- 1							
FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858		YEAR: 2020		QUARTER: 4 - November							
PROJECT SITE AND PHASE: ST106/SS111															
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCS (EPA Method 524.2)	BTEX (EPA Method 524.2)	EDB (EPA Method 504.1)	Total (As, Pb, Ca, K, Na, Mg) (6020A/6010C) (6020A/6010C)	Discolored Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (2320B)	Ammonia Nitrogen (4500-NH3C)	Sulfide (4500 S2CF)	COMMENTS
1	TB2042- 1	11/03/2020	0800	4 98	2	—	2								
2															
3															
4															
5															
6															
Associated with: GWK015-2042 GWVAZ-2042 GWVAZ-6042															
SAMPLER(S): G. Bracht, J. Hamim				COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2320											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature:						Printed Name and Signature:									
Ginny Bracht 				11/3/2020	1400										
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									

 225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB2042- 2											
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA											
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858		YEAR: 2020 QUARTER: 4 - November											
ITEM		SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)							COMMENTS					
					Total Number of Bottles	VOCs	(EPA Method 824.2) BTEX	(EPA Method 824.2) BTEXN	(EPA Method 504.1) EDB	Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn (6020A/6010C)	Chloride, bromide, sulfate (300.0A) (6010C)	Nitrate-Nitrite (353.2)	Ammonia Nitrogen (2320B) Alkalinity (Total, Carbonate and Bicarbonate)	(4500-SCF) Sulfide		
1	TB2042- 2	11/03/2020	0800	4	2	2	2	2									
2																	
3																	
4																	
5																	
6																	
Associated with: GWK016-2042 GWK003-2042																	
SAMPLER(S): J. Hamm, G. Bracht					COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2331												
RELINQUISHED BY:					DATE		TIME		RECEIVED BY:					DATE		TIME	
Printed Name and Signature: G. Bracht					11/3/2020		1400		Printed Name and Signature:								
Printed Name and Signature:									Printed Name and Signature:								
Printed Name and Signature:									Printed Name and Signature:								
Printed Name and Signature:									Printed Name and Signature:								

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7009 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K003-2043		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 - December		
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 16065				LAB CONTACT: 1 (912) 354-7858						
ANALYSIS REQUIRED (Specify number of bottles)														
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(EPA Method 524.2) VOCs	(EPA Method 524.2) BTEX	(EPA Method 524.2) BTEXN	(EPA Method 504.1) EDB	(EPA Method 800.1) Total (As, Pb, Cd, K, Na, Mg)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Ammonia Nitrogen (4500NH3BC) Sulfide (4500 S2CF)	COMMENTS
1	GWK003-2043	12/01/2020	AR 72051105	6	-	3	-	3						
2														
3														
4														
5														
6	AR													
TB2043-02														
SAMPLER(S): A. Rosebrough, G. Begay								COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8079						
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME			
Printed Name and Signature:						Printed Name and Signature:								
Amy Rosebrough				12/01/2020 1430										
Printed Name and Signature:						Printed Name and Signature:								
Printed Name and Signature:						Printed Name and Signature:								

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K015-2043				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 - December				
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 16065				LAB CONTACT: 1 (912) 354-7858								
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(EPA Method 524.2) VOCs	(EPA Method 524.2) BTEX	(EPA Method 524.2) BTEXN	(EPA Method 504.1) EDB	Total (As, Pb, Cd, Ni, Mn)	(6020A/6010C) Dissolved Fe, Mn	Chloride, bromide, sulfate (300.0A)	(353.2) Nitrate-Nitrite	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	Ammonia Nitrogen (450NH3BC)	Sulfide (4500 S2CF)	COMMENTS
1	GWK015-2043	12/01/2020	1010	6	-	3	-	3								
2																
3																
4																
5																
6	AR															
SAMPLER(S): <i>G. Begaye, A. Rosebrough</i>								COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8068								
RELINQUISHED BY:								RECEIVED BY:								
DATE: TIME:								DATE: TIME:								
Printed Name and Signature: <i>Amy Rosebrough</i> 								Printed Name and Signature:								
DATE: <i>12/01/2020</i> TIME: <i>1430</i>																
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1925		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K016-2043				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020				
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 16065				LAB CONTACT: 1 (912) 354-7858						QUARTER: 4 - December		
ANALYSIS REQUIRED (Specify number of bottles)																
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(EPA Method 8242) VOCs	(EPA Method 8242) BTEX	(EPA Method 8242) BTXEN	(EPA Method 504.1) EDB	Total (As, Pb, Cu, Ni, Mn)	(6020A/6010C) Dissolved Fe, Mn	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Alkalinity (Total, Carbonate, and Bicarbonate) (2320B)	Ammonia Nitrogen (4500-NH3C)	(4500-SZCF) Sulfide	COMMENTS
1	GWK016-2043	12/01/2020	0935	6	-	3	-	3								
2																
3																
4																
5																
6	AK															
SAMPLER(S): <i>A. Rosebrough, G. Begay</i>								COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8068								
RELINQUISHED BY:								RECEIVED BY:								
Printed Name and Signature: <i>Amy Rosebrough</i>								Printed Name and Signature:								
DATE: <i>12/01/2020</i> TIME: <i>1330</i>								DATE: TIME:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								
Printed Name and Signature:								Printed Name and Signature:								

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD										COC NUMBER																																																																																																																																									
												COC-VA2-2043																																																																																																																																									
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 - December																																																																																																																																									
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 16065				LAB CONTACT: 1 (912) 354-7858																																																																																																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ITEM</th> <th rowspan="2">SAMPLE IDENTIFIER</th> <th rowspan="2">DATE COLLECTED</th> <th rowspan="2">TIME COLLECTED</th> <th colspan="10">ANALYSIS REQUIRED (Specify number of bottles)</th> <th rowspan="2">COMMENTS</th> </tr> <tr> <th>Total Number of Bottles</th> <th>(EPA Method 524.2) VOCs</th> <th>(EPA Method 524.2) BTEX</th> <th>(EPA Method 524.2) BTEXN</th> <th>(EPA Method 504.1) EDB</th> <th>Total (As, Pb, Cd, Ni, Mn)</th> <th>Dispersed Fe, Mn</th> <th>(6010C) Chloride, bromide, sulfate</th> <th>(300.0A) Nitrate-Nitrite</th> <th>(353.2) Nitrate-Nitrite</th> <th>(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)</th> <th>(4500NH3BC) Ammonia Nitrogen</th> <th>(4500SO3CF) Sulfide</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GWVA2-2043</td> <td>12/01/2020</td> <td>1200</td> <td>6</td> <td>1</td> <td>3</td> <td>1</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>														ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS	Total Number of Bottles	(EPA Method 524.2) VOCs	(EPA Method 524.2) BTEX	(EPA Method 524.2) BTEXN	(EPA Method 504.1) EDB	Total (As, Pb, Cd, Ni, Mn)	Dispersed Fe, Mn	(6010C) Chloride, bromide, sulfate	(300.0A) Nitrate-Nitrite	(353.2) Nitrate-Nitrite	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(4500NH3BC) Ammonia Nitrogen	(4500SO3CF) Sulfide	1	GWVA2-2043	12/01/2020	1200	6	1	3	1	3										2																		3																		4																		5																		6																	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)														COMMENTS																																																																																																																																			
				Total Number of Bottles	(EPA Method 524.2) VOCs	(EPA Method 524.2) BTEX	(EPA Method 524.2) BTEXN	(EPA Method 504.1) EDB	Total (As, Pb, Cd, Ni, Mn)	Dispersed Fe, Mn	(6010C) Chloride, bromide, sulfate	(300.0A) Nitrate-Nitrite	(353.2) Nitrate-Nitrite	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(4500NH3BC) Ammonia Nitrogen	(4500SO3CF) Sulfide																																																																																																																																					
1	GWVA2-2043	12/01/2020	1200	6	1	3	1	3																																																																																																																																													
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TB2043- <i>B3</i>																																																																																																																																																					
SAMPLER(S): <i>A. Rosebraugh G. Beguise</i>								COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8079																																																																																																																																													
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME																																																																																																																																							
Printed Name and Signature:								Printed Name and Signature:																																																																																																																																													
<i>Amy Rosebraugh</i>				12/01/2020		1430																																																																																																																																															
Printed Name and Signature:								Printed Name and Signature:																																																																																																																																													
Printed Name and Signature:								Printed Name and Signature:																																																																																																																																													

 225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 564-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-TB2043.01				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 - December				
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 18629				LAB CONTACT: 1 (912) 354-7858								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)										COMMENTS		
				Total Number of Bottles	VOCs (EPA Method 824.2)	BTEX (EPA Method 824.2)	BTXN (EPA Method 824.2)	EDR (EPA Method 504.1)	Total (As, Pb, Cd, Ni, Mn, Mg) (6020A/6010C)	Dissolved Fe, Mn (6010C)	Chloride, bromide, sulfate (300.0A)	Nitrate-Nitrite (353.2)	Alkalinity (2320B)		Ammonia Nitrogen (4500-NH ₄)	Sulfide (4500-S ₂ C ₂ F)
1	TB2043- 01	12-01-2020	0830	4	2	2										
2																
3																
4																
5																
6																
Associated with: GWK015 - 2043 GWK016 - 2043																
SAMPLER(S): G. Begaye								COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8068								
RELINQUISHED BY:				DATE		TIME		RECEIVED BY:				DATE		TIME		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME		
Gabeon Begaye				12-01-2020		1430										
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME		
Printed Name and Signature:				DATE		TIME		Printed Name and Signature:				DATE		TIME		

 225 Schling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB2043.02	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858			
		ANALYSIS REQUIRED (Specify number of bottles)					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	(EPA Method 504.1) EDB	(EPA Method 504.2) BTEN	COMMENTS
1	TB2043-02	12-01-2020	0830	4	2	2	
2							
3							
4							
5							
6							
Associated with: GWK 003 - 2043 GWUA 2 - 2043							
SAMPLER(S): G. Begaye				COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8079			
RELINQUISHED BY:		DATE	TIME	RECEIVED BY:		DATE	TIME
Printed Name and Signature: Galveston Begaye		12-01-2020	1430	Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			

APPENDIX H-1

**DATA QUALITY EVALUATION REPORT –
DRINKING WATER SUPPLY WELL SAMPLES
(OCTOBER–DECEMBER 2020)**

LIST OF ACRONYMS AND ABBREVIATIONS

%	percent
AFB	Air Force Base
BTEX	benzene, toluene, ethylbenzene, and xylenes
DL	detection limit
DoD	Department of Defense
EDB	ethylene dibromide
ELAP	Environmental Laboratory Accreditation Program
ELLE	Eurofins Lancaster Laboratories Environmental, LLC
EPA	U.S. Environmental Protection Agency
ICP	inductively coupled plasma
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LOD	limit of detection
LOQ	limit of quantitation
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
Q4	fourth quarter of the year (October 1 – December 31)
QAPjP	Quality Assurance Project Plan (2017)
QAPP	Quality Assurance Project Plan (2020)
QC	quality control
RL	reporting limit
RPD	relative percent different
SDG	sample delivery group
SM	Standard Method
SW	Solid Waste
TA	Eurofins TestAmerica Laboratories, Inc.
VOA	volatile organic analysis
VOC	volatile organic compound

H-1.1 DATA QUALITY EVALUATION REPORT – DRINKING WATER SUPPLY WELL SAMPLES (OCTOBER–DECEMBER 2020)

H-1.1.1 Laboratory Data Quality Summary

This Data Quality Evaluation Report describes the findings of the data validation performed for the analysis of drinking water supply well samples collected during October–December 2020 (quarter 4 [Q4]). These data were collected in support of the Work Plan for Vadose Zone Coring, Vapor Monitoring, and Water Supply Sampling, Bulk Fuels Facility, Solid Waste Management Units ST-106 and SS-111, Kirtland Air Force Base (AFB), New Mexico (Kirtland AFB, 2017). Sampling and analysis for the October–December 2020 events were conducted in accordance with the procedures and overall quality control (QC) and quality assurance protocols presented in the Work Plan and Quality Assurance Project Plan (QAPjP) for Bulk Fuels Facility Vadose Zone Treatability Studies, Solid Waste Management Units ST-106/SS-111, Kirtland AFB, New Mexico (Kirtland AFB, 2017); and the Quality Assurance Project Plan (QAPP) Groundwater Monitoring and Interim Remedial Operations Bulk Fuels Facility Solid Waste Management Units ST-106/SS-111, Kirtland AFB, New Mexico (Kirtland AFB, 2020).

Samples discussed in this report were collected on October 6, November 3, and December 1, 2020 in association with the Kirtland AFB drinking water supply wells KAFB-003, KAFB-015, and KAFB-016 and the Raymond G. Murphy Veterans Affairs Medical Center drinking water supply well ST106-VA2. Field QC samples were collected in association with the monthly sampling events and included one field duplicate at well ST106-VA2 and six trip blank samples.

Drinking water samples were shipped to Eurofins TestAmerica Laboratories, Inc. (TA), Savannah, Georgia for analysis. TA Savannah maintains current Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP) certification to perform the analyses required for this project. Sample analyses were performed in accordance with the U.S. Environmental Protection Agency (EPA) Methods for the Determination of Organic Compounds in Drinking Water, 1988 and Supplements.

The October–December 2020 drinking water samples were analyzed for the following parameters and methods:

- ***Benzene, toluene, ethylbenzene, and total xylenes (BTEX)***—EPA Method 524.2
- ***Ethylene dibromide (EDB)***—EPA Method 504.1.

Drinking water samples were also shipped to Eurofins Lancaster Laboratories Environmental, LLC (ELLE), Lancaster, Pennsylvania, for metals and inorganics analyses. ELLE maintains a current DoD ELAP certification to perform the analyses required for this project. Sample analyses were performed in accordance with the following guidance documents:

- DoD Quality Systems Manual, Version 5.1.1 (2018)
- EPA Solid Waste (SW) 846 – Test Methods for Evaluating Solid Waste, Third Edition and Updates (1986)
- Standard Methods (SM) for the Examination of Water and Wastewater, 22nd Edition (American Public Health Association, 2005)
- EPA Methods for Chemical Analysis of Water and Waste, EPA-600/4-79-020 (1983).

In addition, the October 2020 drinking water samples were analyzed for the following parameters and methods at ELLE:

- **Total Arsenic and Lead**—Method SW6020A.
- **Total Calcium, Magnesium, Potassium, and Sodium; Dissolved Iron; and Manganese**—Method SW6010C.
- **Anions (Bromide, Chloride, and Sulfate)**—EPA Method 300.0.
- **Nitrate/Nitrite Nitrogen**—EPA Method 353.2.
- **Total Alkalinity (Bicarbonate and Carbonate)**—Method SM2320 B.
- **Ammonia nitrogen**—SM4500 NH3B/C.
- **Sulfide**—SM4500 S2F.

Chemical analytical data for the Q4 2020 events were reported by TA in sample delivery groups (SDGs) 680-189669-1, 680-191010-1, and 680-192133-1; and by ELLE in SDG 410-16364. Appendix H-1 – Table 1 summarizes samples collected from the production wells and the associated field QC samples, collection date, laboratory SDG, and analytical parameters for the monthly events.

A third-party subcontractor (Environmental Data Services, Inc., Virginia Beach, Virginia) conducted EPA Stage 3 data validation on 100 percent (%) of the Eurofins TA sample data. ELLE data for metals and inorganics in SDG 410-16364-1 underwent Stage 2B validation by Validata Chemical Services, Inc., Duluth, Georgia.

Analytical data validation was performed using the quality criteria specified in the following documents, analytical guidelines, and methods:

- Work Plan and QAPjP (Kirtland AFB, 2017)
- QAPP (Kirtland AFB, 2020)
- EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2014a)
- EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Data Review (EPA, 2014b)
- EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2017a)
- EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Superfund Data Review (EPA, 2017b)
- EPA Test Methods for Evaluating Solids Waste, Physical/Chemical Methods (SW 846, Third Edition and updates) (1986)

- American Public Health Association, Standard Methods for the Examination of Water and Wastewater, 22nd Edition (2005)
- EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020 (1983)
- EPA Methods for the Determination of Organic Compounds in Drinking Water, 1988 and Supplements
- DoD General Data Validation Guidelines (DoD, 2019).

The following QC criteria were included in the EPA Stage 2B/3 validation as applicable to the analytical method:

- Sample preservation and extraction and analysis holding times
- Laboratory method blank contamination
- Surrogate spike recoveries
- Laboratory control sample (LCS) and LCS duplicate (LCSD) recoveries
- Matrix spike (MS) and matrix spike duplicate (MSD) sample recoveries
- Relative percent difference (RPD)
- Initial and continuing calibrations
- Inductively coupled plasma (ICP) interference check sample (metals)
- ICP serial dilution (metals)
- Second column confirmation (for EDB analysis only)
- Trip blank results
- Field duplicate sample precision.

Analytical data were reviewed to evaluate precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity as defined below:

- *Precision* is expressed as the RPD between the results of replicate sample analyses: sample duplicates, LCSDs, and MSDs. When analyte RPDs exceed the acceptance criteria, the data are qualified accordingly.
- *Accuracy (bias)* is demonstrated by recovery of target analytes from fortified blank and sample matrices, LCS/LCSD, and MS/MSD, respectively. For organic methods, bias is also demonstrated through recovery of surrogates from each field and QC sample. A comparison was made from the recovery of target analytes from fortified samples to the acceptance criteria defined in the QAPjP (Kirtland AFB, 2017). When the acceptance criteria are not available in the QAPjP, results are compared with the laboratory in-house control limits. When these criteria are not met, the data are qualified accordingly. Bias may be indicated as high or low.
- *Representativeness* of the samples submitted for analysis is ensured by adherence to standard sampling techniques and standard analytical method protocols.
- *Comparability* of sample results is ensured through the use of approved sampling and analysis methods and comparison of sample results to historical sample data.
- *Completeness* of data is evaluated based on contractual, analytical, and technical completeness for the monthly supply well data. Technical completeness of data is used to assess overall project completeness and is expressed as a percentage of the ratio of the number of usable data results to

the total number of analytical data results. Only rejected data (R-qualified) are considered not usable to achieve project objectives.

- *Sensitivity* for the BTEX and EDB is determined by the ability to achieve the established method specific reporting limits (RLs) in accordance with the method detection limit (MDL) study and includes establishing the MDL. The MDL and RL for EPA drinking water methods are similar to the DoD detection limit (DL) and limit of quantitation (LOQ), respectively. For this project, the laboratory will report positive results to the MDL and results between the MDL and RL will be flagged with a J-qualifier and reported as estimated data. Sensitivity is evaluated based on comparison of the sample RLs to the project screening levels.
- *Sensitivity* for the metals and inorganics is determined by the ability to achieve the established method-specific reporting limits in accordance with DoD Quality Systems Manual requirements and includes establishing the DL, limit of detection (LOD), and LOQ. For this project, the laboratory reported positive results to the DL and flagged with a “J” qualifier, signifying estimated data. Non-detect results were reported at the LOD with a “U” qualifier per the QAPjP. Sensitivity will be evaluated based on comparison of the sample reporting limits to the project screening levels.

The following sections present the data validation findings for the Q4 2020 monthly drinking water supply well data. Appendix H-1 – Table 2 presents the data qualification flags and reason codes to be applied to analytical data, if required.

H-1.2 DATA QUALITY FINDINGS

H-1.2.1 Sample Preservation and Sample Extraction and Analysis Holding Times (Reason Code HT)

The sample coolers and samples contained within the coolers were received intact at the laboratories below 6 degrees Celsius, per EPA guidelines. All samples were preserved appropriately per the requirements of EPA method guidelines, with no exceptions. Sample holding times were evaluated by comparing the (1) sample collection date to the sample extraction date, and (2) extraction date to the analysis date to determine if the method-specified holding times were exceeded. Sample extraction and analysis holding times were met for all samples for Q4 2020.

H-1.2.2 Laboratory Method Blanks (Reason Code MB)

The drinking water supply sample results were evaluated with respect to the laboratory method blank prepared and analyzed for each analytical batch for each analytical method. No detections of analytes were reported in method blank samples for the water supply well samples.

H-1.2.3 Initial and Continuing Calibration Blanks (Reason Code CB/CCB)

Initial and continuing calibration blank criteria were reviewed to ensure that the instruments were free of contamination prior to sample analysis. Calibration blank concentrations are considered acceptable when contaminant levels in the blank are less than one-half the RL or LOQ for target analytes and less than the RL or LOQ for common laboratory contaminants. Initial and continuing calibration blank data were within control criteria for the drinking water supply sample analyses. Low-level detections of calcium and sodium were reported in the metals CCB in SDG 410-16364-1 but did not result in data qualification based on the associated sample concentrations.

H-1.2.4 Surrogate Recoveries (Reason Code SURR)

Surrogate compounds are added to field and laboratory QC samples for organic analysis to evaluate the matrix effect and method performance on an individual sample basis. All surrogate compound recoveries for the drinking water supply well sample data were within method control criteria or did not result in data qualification since results were non-detect.

H-1.2.5 Laboratory Control Sample/Laboratory Control Sample Duplicate Recoveries and Precision (Reason Codes LCS/RPD)

The LCS is an aliquot of an analyte-free matrix spiked with target analytes that are prepared with each analytical batch for each analytical method. The recovery of target analytes from the LCS analysis is a measurement of method performance in an interference-free sample matrix. All LCS recoveries for the drinking water supply well data were within method control limits, and no sample data were qualified based on LCS recoveries.

H-1.2.6 Matrix Spike/Matrix Spike Duplicate Recoveries and Precision (Reason Codes MS/MSD and RPD)

The MS and MSD samples are a portion of a field sample or a standard reference material spiked with target analytes that are prepared with each analytical batch and method as appropriate. The MS/MSD results are used to evaluate any bias introduced to the method due to matrix interference, and to measure bias and precision for each analytical batch.

One MS/MSD was collected during the October 2020 sampling event to achieve the requirement of one per 20 samples for the monthly monitoring program. MS/MSD recoveries were within control limits or did not result in data qualification based on the associated sample results. No data were qualified based on MS/MSD recoveries for the Q4 2020 events.

H-1.2.7 Initial and Continuing Calibration Verification (Reason Code CCV)

Instrument calibration is performed for all analyses in accordance with method requirements. The linear analytical range is established for each method by analysis of calibration standards prepared at increasing concentrations that cover the expected sample concentration range. The acceptability of the initial calibration is determined by calculation of a percent relative standard deviation or coefficient. The stability of the analytical system is monitored by analysis of continuing calibration standards at concentrations near the mid-point of the instrument calibration range. The percent difference values between the relative response factor in the initial calibration and the relative response factor in the continuing calibration are reviewed to ensure instrument calibration criteria are within method control limits. Initial and continuing calibration verification met the method-specific control criteria for monthly drinking water supply well analytical data.

H-1.2.8 Sample Confirmation (Reason Code RPD)

As required by EPA analytical method guidance, sample detections for EDB require confirmation using a second column analysis. No EDB sample detections were reported for the drinking water supply well samples analyzed using EPA Method 504.1 and, therefore, second column confirmation was not evaluated for the samples.

H-1.2.9 Trip Blanks for Volatile Organic Compounds (Reason Code TB)

Trip blank samples were prepared by the laboratory and stored with the groundwater samples collected for volatile organic compound (VOC) analyses (BTEX and EDB). In accordance with the QAPjP requirements, trip blank samples are to be included at a rate of one per cooler when sampling groundwater samples for VOC analysis. A trip blank sample was included with each drinking water supply well sample shipment. No detections of VOCs were reported in trip blank samples. Appendix H-1 – Table 3 summarizes the results for trip blank samples associated with the drinking water supply well samples.

H-1.2.10 Equipment Rinse Blanks (Reason Code EB)

No equipment rinse blank samples are required to be collected in conjunction with the water supply well samples since samples are collected directly from a designated sampling port using dedicated sampling equipment.

H-1.2.11 Field Duplicate Samples

In accordance with the project QAPjP/QAPP requirements (Kirtland AFB, 2017, 2020), field duplicate samples are collected at a frequency of one field duplicate for every 10 monthly samples collected (10%). For the Q4 2020 sampling events, one field duplicate sample was collected in association with the drinking water supply wells for the November event and analyzed for BTEX and EDB. The field duplicate sample frequency for the Q4 2020 sampling was achieved.

For field duplicate samples, RPD was evaluated by calculating the RPD between the parent sample and the duplicate sample. The RPD was calculated using the following equation:

$$RPD = |(S-D)/[(S+D)/2]| \times 100$$

where

- S = Sample result.
- D = Duplicate result.

Acceptable precision control criteria are established at less than or equal to 35% for water samples. The RPD was calculated between pairs of field duplicate samples when both results are reported at or above the RL for BTEX and EDB. The results for the drinking water supply well and associated field duplicate samples are provided in Appendix H-1 – Table 4. All field duplicate results are either non-detect or less than 35% RPD.

H-1.2.12 Professional Judgement

Professional judgement may be applied by a third-party data validation subcontractor or the project chemist during the data review process to apply validation qualifiers based on site-specific and project-specific knowledge, historical data, comparability of data, and analytical expertise. Professional judgement was not used to apply additional data qualifiers for the Q4 2020 data.

H-1.3 COMPLETENESS

The following sections present a discussion of contractual, analytical, and technical completeness for the monthly drinking water supply well analytical data completeness.

H-1.3.1 Contractual Completeness

Contractual completeness is a quantitative determination of the number of unqualified results compared to the total number of sample results expressed as a percentage, based on data qualified for QC outliers related to analytical method performance. These include data qualified for calibration or method blank contamination, missed holding times, LCS recovery, and/or precision. The contractual completeness goal is 95% per each event. Contractual completeness was calculated as follows:

$$\text{Percent Contractual Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100$$

For the monthly drinking water supply well sample results, the contractual completeness was 100% for all analytical methods. The 95% contractual completeness objective was achieved for all of the methods for the sampling event.

H-1.3.2 Analytical Completeness

Analytical completeness is a quantitative measure of the number of unqualified data results compared to the total number of results expressed as a percentage, based on the target analytes qualified for exceedances of QC requirements from calibration, LCS, MS/MSD, surrogate, method precision, and laboratory method blank contamination results. The analytical completeness goal is 90% for the project. Analytical completeness was calculated as follows:

$$\text{Percent Analytical Completeness} = \frac{\text{Number of Unqualified Results}}{\text{Total Number of Results}} \times 100 =$$

Analytical completeness for Q4 2020 is 100%.

H-1.3.3 Technical Completeness

Technical completeness is a quantitative measure of the data usability based on the number of rejected data compared to the total number of sample results. The technical completeness goal for each method is equal to or greater than 95%. The technical completeness calculation considers all data that are not rejected (R-qualified) to be usable data to achieve project objectives. The technical completeness was calculated as follows:

$$\text{Percent Technical Completeness} = \frac{\text{Number of Usable Results}}{\text{Total Number of Results}} \times 100$$

The project data quality objectives were achieved for all methods and samples for the monthly drinking water supply well sampling events. The technical completeness for the Q4 2020 data is 100%. Technical completeness is provided in Appendix H-1 – Table 5.

H-1.4 DATA ANALYSIS COMPLETENESS

As a part of the data review process, chain-of-custody forms and project data deliverables are reviewed against the project requirements in the Work Plan (Kirtland AFB, 2017) and QAPP (Kirtland AFB, 2020) to ensure compliance with the sampling plan and that analytical results were reported for all planned methods and samples. Data completeness for the monthly drinking water supply well data deliverables was determined to be 100% complete. Analytical data packages are provided in Appendix H-2.

H-1.5 REPRESENTATIVENESS AND COMPARABILITY

Monthly drinking water supply well sampling was conducted in accordance with the sampling and analysis protocols and standard operating procedures documented in the Work Plan and QAPP (Kirtland AFB, 2017, 2020). Approved procedures were used to collect, preserve, document, and ship samples to TA Savannah and ELLE laboratories, thus ensuring the samples collected were representative of the drinking water supply wells.

Water samples for BTEX and EDB were collected in 40-milliliter volatile organic analysis (VOA) vials preserved with ascorbic acid and hydrochloric acid (BTEX) and sodium thiosulfate (EDB), and received at TA Savannah at less than 6 degrees Celsius. Samples received in VOA vials were inspected to evaluate the presence or absence of any headspace (estimated in millimeters) and documented as sample condition on the laboratory sample receipt report. No VOA vials presented headspace greater than 6 millimeters for the monthly drinking water supply well samples. Samples for metals and inorganics were collected in appropriate containers with required preservative as applicable and received at ELLE at less than 6 degrees Celsius.

The TA Savannah laboratory maintains current DoD ELAP certification and adhered to the analytical methods documented in the project QAPjP to prepare and analyze samples and report the data. ELLE maintains current DoD ELAP certification and adhered to the analytical methods documented in the project QAPP and DoD Quality Systems Manual requirements to prepare and analyze samples and report the data. These certifications ensure the comparability of the analytical results between different samples and different sampling events.

EPA Stage 2B/3 validation was performed on 100% of the analytical data to verify that the laboratory complied with the project QAPjP/QAPP and method requirements. QC results that exceeded method control criteria resulted in data qualification as presented in the previous sections. Based on a review of the completed sample collection logs, chain-of-custody forms, sample receipt forms, and laboratory data packages, the analytical data reported for the monthly drinking water supply well sampling achieved the project data representativeness and comparability requirements.

H-1.6 SENSITIVITY

Data sensitivity for the monthly drinking water supply well analytical data was achieved by complying with the analytical method guidelines and RLs specified in the project QAPjP. The analytical methods used for supply well sample analysis achieved the EPA Maximum Contaminant Level screening value. Project screening levels are presented in the QAPjP, Attachment 1, Table 1-1a and in the QAPP Worksheet 15. For the monthly drinking water supply well analytical results, non-detect analytes are reported at the method RL (BTEX and EDB) and LOD (metals and inorganics) and flagged “U.” Detections of target analytes below the method RL or LOQ are flagged “J” as estimated values per the project requirements.

H-1.7 CONCLUSIONS

The analytical data reported for the monthly drinking water supply well samples have been reviewed for precision, accuracy (bias), representativeness, comparability, completeness, and sensitivity. No data quality criteria exceedances were noted for the Q4 2020 data that resulted in data qualification. The 95% technical completeness goal was achieved for all analytical methods for the Q4 2020 sampling event. All data are usable to achieve the project data quality objectives.

H-1.8 REFERENCES

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Table H-1-1
Production Well Sample Collection Summary, Q4 2020

Sample Location ID	Field Sample ID	Sample Date	Sample Delivery Group	Analytical Parameter ^a	Comments
KAFB-016	GWK016-2041	10/6/2020	410-16364-1; 680-189669-1	EDB, BTEX, metals, anions, alkalinity	MS/MSD
KAFB-015	GWK015-2041	10/6/2020	410-16364-1; 680-189669-1	EDB, BTEX, metals, anions, alkalinity	—
KAFB-003	GWK003-2041	10/6/2020	410-16364-1; 680-189669-1	EDB, BTEX, metals, anions, alkalinity	—
ST106-VA2	GWVA2-2041	10/6/2020	410-16364-1; 680-189669-1	EDB, BTEX, metals, anions, alkalinity	—
Trip Blank	TB2041-01	10/6/2020	680-189669-1	EDB, BTEX	—
Trip Blank	TB2041-02	10/6/2020	680-189669-1	EDB, BTEX	—
KAFB-016	GWK016-2042	11/3/2020	680-191010-1	EDB, BTEX	—
KAFB-015	GWK015-2042	11/3/2020	680-191010-1	EDB, BTEX	—
KAFB-003	GWK003-2042	11/3/2020	680-191010-1	EDB, BTEX	—
ST106-VA2	GWVA2-2042	11/3/2020	680-191010-1	EDB, BTEX	—
ST106-VA2	GWVA2-6042	11/3/2020	680-191010-1	EDB, BTEX	Field Duplicate
Trip Blank	TB2042-1	11/3/2020	680-191010-1	EDB, BTEX	—
Trip Blank	TB2042-2	11/3/2020	680-191010-1	EDB, BTEX	—
KAFB-016	GWK016-2043	12/1/2020	680-192133-1	EDB, BTEX	—
KAFB-015	GWK015-2043	12/1/2020	680-192133-1	EDB, BTEX	—
KAFB-003	GWK003-2043	12/1/2020	680-192133-1	EDB, BTEX	—
ST106-VA2	GWVA2-2043	12/1/2020	680-192133-1	EDB, BTEX	—
Trip Blank	TB2043-01	12/1/2020	680-192133-1	EDB, BTEX	—
Trip Blank	TB2043-02	12/1/2020	680-192133-1	EDB, BTEX	—

^aAnalytical methods include: Method E524.2 for BTEX; Method E504.1 for EDB; Methods SW6010C/6020A for total metals (calcium, potassium, magnesium, sodium /arsenic and lead); Method SW6010C for dissolved iron and manganese. Anions analyses include Method SM4500 NH3B for ammonia; Method E300.0 for bromide, chloride and sulfate; Method E353.2 for nitrate/nitrite; Method SM4500 S2F for sulfide. Alkalinity is analyzed using Method SM2320B.

— = no comments

BTEX = benzene, toluene, ethylbenzene, xylenes

EDB = ethylene dibromide

ID = identification

MS = matrix spike

MSD = matrix spike duplicate

Table H-1-2
Data Qualification Flags and Reason Codes

Data Qualifier Definitions for Data Validation	
Qualifier	Definition
	No Qualifier indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for but was not detected above the detection limit. The value associated with the U-qualifier is the limit of detection.
J	The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample. Results are estimated, although the data are considered usable and may be used as appropriate to meet project objectives. Results are qualitatively acceptable and quantitatively uncertain.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Re-sampling and re-analysis may be necessary to confirm or deny the presence of the analyte. Results are rejected, and data are <u>unusable</u> for any purposes.
X	The sample results were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project QC criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (includes project chemist).

Reason Codes for Data Validation	
Reason Code	Description
CB/CCB	Calibration blank or continuing calibration blank outside of control limits
CCV	Calibration verification outside of control limits
EB	Equipment rinse blank contamination
FB	Field blank contamination
FD	Field duplicate sample results out of control criteria
HT	Holding time exceedance
ICS	Interference check sample
LCS	Laboratory control sample recovery out of control criteria
MB	Method blank contamination
MS/MSD	Matrix spike/ matrix spike duplicate recovery outside of control criteria
RPD	Relative percent difference outside of control limits
SD	ICP serial dilution out of control criteria
SURR	Surrogate recovery outside of control limits
TB	Trip blank contamination

Table H-1-3
Field Quality Control Sample Results, Q4 2020

Field Sample ID:			TB2041-01			TB2041-02			TB2042-1			TB2042-2			TB2043-01			TB2043-02		
Sample Date:			10/6/2020			10/6/2020			11/3/2020			11/3/2020			12/1/2020			12/1/2020		
Sample Type:			TB			TB			TB			TB			TB			TB		
Parameter	Analytical Method	Analyte	Result	Val Qual	LOQ	Result	Val Qual	LOQ	Result	Val Qual	LOQ	Result	Val Qual	LOQ	Result	Val Qual	LOQ	Result	Val Qual	LOQ
EDB	Method EPA 504.1 (µg/L)	1,2-Dibromoethane	ND	U	0.017	ND	U	0.018	ND	U	0.018	ND	U	0.018	ND	U	0.018	ND	U	0.018
VOCs	Method EPA 524.2 (µg/L)	Benzene	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Toluene	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5
		Xylenes, Total	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5	ND	U	0.5

µg/L = microgram per liter
ID = identification
LOQ = Limit of quantitation (method reporting limit).
ND = not detected
Val Qual = validation qualifier
VOC = volatile organic compound
Shading = detected concentrations above the detection limit
Qualifiers:
Val Quals based on independent data validation
U = Qualifier denotes the analyte was analyzed but not detected above the method detection limit. The value associated with the U-qualifier is the LOQ.

Table H-1-4
Field Duplicate Sample Results, Q4 2020

		Location ID:		ST106-VA2			ST106-VA2		
		Field Sample ID:		GWVA2-2042			GWVA2-6042		
		Sample Date:		11/3/2020			11/3/2020		
		Sample Type:		REG			Field Duplicate		
Parameter	Analytical Method	Analyte	EPA MCL ^a	Result	Val Qual	LOD	Result	Val Qual	LOD
EDB	Method E504.1 (µg/L)	1,2-Dibromoethane	0.05	ND	U	0.017	ND	U	0.018
BTEX	Method E524.2 (µg/L)	Benzene	5	ND	U	0.5	ND	U	0.5
		Ethylbenzene	700	ND	U	0.5	ND	U	0.5
		Toluene	1,000	ND	U	0.5	ND	U	0.5
		Xylenes, total	10,000	ND	U	0.5	ND	U	0.5

^a EPA National Primary Drinking Water Regulations, MCLs and Secondary MCLs, Title 40CFR Part 141, 143 (May 2018).

EDB = ethylene dibromide (1,2-dibromoethane)

E = U.S. Environmental Protection Agency

ID = identification

LOQ = Limit of quantitation (method reporting limit).

MCL = maximum contaminant level

ND = not detected

REG = normal field sample

Val Qual = validation qualifier

VOC = volatile organic compound

Shading = detected concentrations above the detection limit

Bold/Shading = reported concentrations exceed the project screening level.

Qualifiers:

Val Quals based on independent data validation

U = Qualifier denotes the analyte was analyzed but not detected above the method detection limit. The value associated with the U-qualifier is the LOQ.

Table H-1-5
Technical Data Completeness - Groundwater, Q4 2020

Analytical Parameter	Field/Field Duplicate Sample Analytes	Quality Control Sample Analytes (TB)	Qualified Analytes	Percent Technical Completeness^a
VOCs (E524.2) ^b	52	24	0	100
Ethylene dibromide (E504.1)	13	6	0	100
Total metals (SW6010C) ^c	16	0	0	100
Dissolved metals (SW6010C) ^d	8	0	0	100
Total metals (SW6020A) ^e	8	0	0	100
Anions (E300.0) ^f	12	0	0	100
Nitrate/nitrite nitrogen (E353.2)	4	0	0	100
Nitrogen, ammonia (SM4500 NH3BC)	4	0	0	100
Sulfide (SM4500 S2F)	4	0	0	100
Alkalinity (SM2320B)	12	0	0	100

^a Percent technical completeness including analytes qualified as estimated data. No data were rejected.

^b Samples were only analyzed for benzene, toluene, ethylbenzene, and total xylenes.

^c Total metals (SW6010C) = calcium, magnesium, potassium, sodium.

^d Dissolved metals (SW6010C) = dissolved iron, manganese.

^e Total metals (SW6020A) = arsenic, lead.

^f Anions = bromide, chloride, sulfate.

TB = trip blank

VOC = volatile organic compound



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Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-16364-1

Client Project/Site: Kirtland AFB Bulk Fuels Facility
Revision: 1

For:

EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, Texas 75067

Attn: Pamela J Moss

Darlene Bandy

Authorized for release by:
12/18/2020 10:36:42 AM

Darlene Bandy, Project Manager I
(303)736-0188
Darlene.Bandy@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Darlene Bandy
Project Manager I
12/18/2020 10:36:42 AM

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Definitions/Glossary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Undetected at the Limit of Detection.

Metals

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J1	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
Q	One or more quality control criteria failed.
U	Undetected at the Limit of Detection.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Lancaster Laboratories Env, LLC

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Job ID: 410-16364-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative 410-16364-1

Revision

The report (revision 1) is being revised due to: The limits for the MS/MSD for Lead 6020A were corrected from 88-118% to 88-115% per the QSM.

Receipt

The samples were received on 10/7/2020 10:59 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0° C and 1.5° C.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010C: The continuing calibration verification (CCV) associated with batch 410-55680 recovered above the upper control limit for Potassium and Sodium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (MB 410-53101/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Client Sample ID: GWK003-2041

Lab Sample ID: 410-16364-1

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	25	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	31	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	40		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.0		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	2.4		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	23		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Lead	0.00033	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Nitrate Nitrite as N	0.41		0.10	0.090	0.040	mg/L	1			353.2	Total/NA
Sulfide	0.75	J	2.0	1.5	0.70	mg/L	1			4500 S2 F-2011	Total/NA

Client Sample ID: GWK016-2041

Lab Sample ID: 410-16364-2

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	62	D	20	15	10	mg/L	50			EPA 300.0 R2.1	Total/NA
Sulfate	31	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	45		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	5.2		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.6		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	27		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Manganese	0.0066	J J1	0.010	0.0052	0.0031	mg/L	1			6010C	Dissolved
Arsenic	0.023	J1	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00013	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	93		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	93		8.0	6.0	8.0	mg/L	1			2320B-2011	Total/NA
Sulfide	0.94	J	2.0	1.5	0.70	mg/L	1			4500 S2 F-2011	Total/NA

Client Sample ID: GWVA2-2041

Lab Sample ID: 410-16364-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil	Fac	D	Method	Prep Type
Chloride	30	D	2.0	1.5	1.0	mg/L	5			EPA 300.0 R2.1	Total/NA
Sulfate	26	D	5.0	4.5	1.5	mg/L	5			EPA 300.0 R2.1	Total/NA
Calcium	34		0.20	0.15	0.096	mg/L	1			6010C	Total Recoverable
Magnesium	6.4		0.10	0.075	0.040	mg/L	1			6010C	Total Recoverable
Potassium	3.4		0.50	0.38	0.20	mg/L	1			6010C	Total Recoverable
Sodium	22		1.0	0.50	0.24	mg/L	1			6010C	Total Recoverable
Arsenic	0.0017	J	0.0020	0.0016	0.00068	mg/L	1			6020A	Total/NA
Lead	0.00043	J	0.00050	0.00025	0.000071	mg/L	1			6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Client Sample ID: GWVA2-2041 (Continued)

Lab Sample ID: 410-16364-3

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

Client Sample ID: GWK015-2041

Lab Sample ID: 410-16364-4

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	Dil Fac	D	Method	Prep Type
Chloride	59	D	20	15	10	mg/L	50		EPA 300.0 R2.1	Total/NA
Sulfate	31	D	5.0	4.5	1.5	mg/L	5		EPA 300.0 R2.1	Total/NA
Calcium	29		0.20	0.15	0.096	mg/L	1		6010C	Total
Magnesium	7.3		0.10	0.075	0.040	mg/L	1		6010C	Total
Potassium	6.4		0.50	0.38	0.20	mg/L	1		6010C	Total
Sodium	35		1.0	0.50	0.24	mg/L	1		6010C	Total
Manganese	0.025		0.010	0.0052	0.0031	mg/L	1		6010C	Dissolved
Arsenic	0.015		0.0020	0.0016	0.00068	mg/L	1		6020A	Total/NA
Lead	0.00014	J	0.00050	0.00025	0.000071	mg/L	1		6020A	Total/NA
Bicarbonate Alkalinity as CaCO ₃	94		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA
Total Alkalinity as CaCO ₃ to pH 4.5	94		8.0	6.0	8.0	mg/L	1		2320B-2011	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Client Sample ID: GWK003-2041

Lab Sample ID: 410-16364-1

Date Collected: 10/06/20 10:30

Matrix: Water

Date Received: 10/07/20 10:59

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 12:27	5
Chloride	25	D	2.0	1.5	1.0	mg/L		10/13/20 12:27	5
Sulfate	31	D	5.0	4.5	1.5	mg/L		10/13/20 12:27	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	40		0.20	0.15	0.096	mg/L		10/18/20 15:37	1
Magnesium	5.0		0.10	0.075	0.040	mg/L		10/18/20 15:37	1
Potassium	2.4		0.50	0.38	0.20	mg/L		10/21/20 05:12	1
Sodium	23		1.0	0.50	0.24	mg/L		10/19/20 15:17	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 21:36	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 21:36	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 15:22	1
Lead	0.00033	J	0.00050	0.00025	0.000071	mg/L		10/13/20 15:22	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	110		8.0	6.0	8.0	mg/L		10/10/20 05:27	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 05:27	1
Total Alkalinity as CaCO ₃ to pH 4.5	110		8.0	6.0	8.0	mg/L		10/10/20 05:27	1
Nitrate Nitrite as N	0.41		0.10	0.090	0.040	mg/L		10/22/20 13:08	1
Ammonia-N	0.60	U	0.75	0.60	0.25	mg/L		10/13/20 13:26	1
Sulfide	0.75	J	2.0	1.5	0.70	mg/L		10/09/20 15:13	1

Client Sample ID: GWK016-2041

Lab Sample ID: 410-16364-2

Date Collected: 10/06/20 09:15

Matrix: Water

Date Received: 10/07/20 10:59

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 13:04	5
Chloride	62	D	20	15	10	mg/L		10/13/20 13:22	50
Sulfate	31	D	5.0	4.5	1.5	mg/L		10/13/20 13:04	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	45		0.20	0.15	0.096	mg/L		10/16/20 10:45	1
Magnesium	5.2		0.10	0.075	0.040	mg/L		10/16/20 10:45	1
Potassium	3.6		0.50	0.38	0.20	mg/L		10/18/20 12:00	1
Sodium	27		1.0	0.50	0.24	mg/L		10/16/20 10:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U J1	0.21	0.10	0.041	mg/L		10/14/20 21:00	1
Manganese	0.0066	J J1	0.010	0.0052	0.0031	mg/L		10/14/20 21:00	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Client Sample ID: GWK016-2041

Lab Sample ID: 410-16364-2

Date Collected: 10/06/20 09:15

Matrix: Water

Date Received: 10/07/20 10:59

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.023	J1	0.0020	0.0016	0.00068	mg/L		10/13/20 14:53	1
Lead	0.00013	J	0.00050	0.00025	0.000071	mg/L		10/13/20 14:53	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	93		8.0	6.0	8.0	mg/L		10/10/20 05:34	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 05:34	1
Total Alkalinity as CaCO ₃ to pH 4.5	93		8.0	6.0	8.0	mg/L		10/10/20 05:34	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 13:09	1
Ammonia-N	0.60	U	0.75	0.60	0.25	mg/L		10/13/20 13:26	1
Sulfide	0.94	J	2.0	1.5	0.70	mg/L		10/09/20 15:13	1

Client Sample ID: GWVA2-2041

Lab Sample ID: 410-16364-3

Date Collected: 10/06/20 11:17

Matrix: Water

Date Received: 10/07/20 10:59

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L		10/13/20 13:40	5
Chloride	30	D	2.0	1.5	1.0	mg/L		10/13/20 13:40	5
Sulfate	26	D	5.0	4.5	1.5	mg/L		10/13/20 13:40	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	34		0.20	0.15	0.096	mg/L		10/16/20 10:48	1
Magnesium	6.4		0.10	0.075	0.040	mg/L		10/16/20 10:48	1
Potassium	3.4		0.50	0.38	0.20	mg/L		10/18/20 12:04	1
Sodium	22		1.0	0.50	0.24	mg/L		10/16/20 10:48	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 21:33	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 21:33	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0017	J	0.0020	0.0016	0.00068	mg/L		10/13/20 15:23	1
Lead	0.00043	J	0.00050	0.00025	0.000071	mg/L		10/13/20 15:23	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	100		8.0	6.0	8.0	mg/L		10/10/20 05:42	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 05:42	1
Total Alkalinity as CaCO ₃ to pH 4.5	100		8.0	6.0	8.0	mg/L		10/10/20 05:42	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 13:10	1
Ammonia-N	0.60	U	0.75	0.60	0.25	mg/L		10/13/20 13:26	1
Sulfide	1.5	U	2.0	1.5	0.70	mg/L		10/09/20 15:13	1

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Client Sample ID: GWK015-2041

Lab Sample ID: 410-16364-4

Date Collected: 10/06/20 10:00

Matrix: Water

Date Received: 10/07/20 10:59

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	2.0	U	2.5	2.0	1.3	mg/L	—	10/13/20 14:16	5
Chloride	59	D	20	15	10	mg/L	—	10/13/20 14:34	50
Sulfate	31	D	5.0	4.5	1.5	mg/L	—	10/13/20 14:16	5

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	29		0.20	0.15	0.096	mg/L	—	10/16/20 10:52	1
Magnesium	7.3		0.10	0.075	0.040	mg/L	—	10/16/20 10:52	1
Potassium	6.4		0.50	0.38	0.20	mg/L	—	10/18/20 12:07	1
Sodium	35		1.0	0.50	0.24	mg/L	—	10/16/20 10:52	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L	—	10/14/20 22:04	1
Manganese	0.025		0.010	0.0052	0.0031	mg/L	—	10/14/20 22:04	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.015		0.0020	0.0016	0.00068	mg/L	—	10/13/20 15:25	1
Lead	0.00014	J	0.00050	0.00025	0.000071	mg/L	—	10/13/20 15:25	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	94		8.0	6.0	8.0	mg/L	—	10/10/20 05:50	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L	—	10/10/20 05:50	1
Total Alkalinity as CaCO ₃ to pH 4.5	94		8.0	6.0	8.0	mg/L	—	10/10/20 05:50	1
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L	—	10/22/20 13:14	1
Ammonia-N	0.60	U	0.75	0.60	0.25	mg/L	—	10/13/20 13:26	1
Sulfide	1.5	U	2.0	1.5	0.70	mg/L	—	10/09/20 15:13	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-53707/4

Matrix: Water

Analysis Batch: 53707

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bromide	0.40	U	0.50	0.40	0.25	mg/L		10/13/20 05:18	1
Chloride	0.30	U	0.40	0.30	0.20	mg/L		10/13/20 05:18	1
Sulfate	0.90	U	1.0	0.90	0.30	mg/L		10/13/20 05:18	1

Lab Sample ID: LCS 410-53707/3

Matrix: Water

Analysis Batch: 53707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	7.50	7.47		mg/L		100	90 - 110
Chloride	3.00	3.02		mg/L		101	90 - 110
Sulfate	7.50	7.71		mg/L		103	90 - 110

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-53441/1-A

Matrix: Water

Analysis Batch: 54661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53441

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Iron	0.10	U	0.21	0.10	0.041	mg/L		10/14/20 20:53	1
Manganese	0.0052	U	0.010	0.0052	0.0031	mg/L		10/14/20 20:53	1

Lab Sample ID: LCS 410-53441/2-A

Matrix: Water

Analysis Batch: 54661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.402	0.451		mg/L		112	87 - 115
Manganese	0.0200	0.0228		mg/L		114	90 - 114

Lab Sample ID: MB 410-53101/1-A

Matrix: Water

Analysis Batch: 55680

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53101

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/18/20 14:00	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/18/20 14:00	1
Potassium	0.38	U Q	0.50	0.38	0.20	mg/L		10/18/20 14:00	1
Sodium	0.50	U Q	1.0	0.50	0.24	mg/L		10/18/20 14:00	1

Lab Sample ID: LCS 410-53101/2-A

Matrix: Water

Analysis Batch: 56658

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.409		mg/L		102	87 - 113
Magnesium	0.200	0.194		mg/L		97	85 - 113
Potassium	5.60	5.69		mg/L		102	86 - 114
Sodium	2.00	2.11		mg/L		106	87 - 115

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 410-53748/1-A

Matrix: Water

Analysis Batch: 55263

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Calcium	0.15	U	0.20	0.15	0.096	mg/L		10/16/20 10:08	1
Magnesium	0.075	U	0.10	0.075	0.040	mg/L		10/16/20 10:08	1
Sodium	0.50	U	1.0	0.50	0.24	mg/L		10/16/20 10:08	1

Lab Sample ID: MB 410-53748/1-A

Matrix: Water

Analysis Batch: 55664

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Potassium	0.38	U	0.50	0.38	0.20	mg/L		10/18/20 11:22	1

Lab Sample ID: LCS 410-53748/2-A

Matrix: Water

Analysis Batch: 55263

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	0.400	0.402		mg/L		100	87 - 113
Magnesium	0.200	0.198		mg/L		99	85 - 113
Sodium	2.00	2.13		mg/L		106	87 - 115

Lab Sample ID: LCS 410-53748/2-A

Matrix: Water

Analysis Batch: 55664

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 53748

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	5.60	5.88		mg/L		105	86 - 114

Lab Sample ID: 410-16364-2 MS

Matrix: Water

Analysis Batch: 54661

Client Sample ID: GWK016-2041

Prep Type: Dissolved

Prep Batch: 53441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.10	U J1	0.402	0.442		mg/L		110	87 - 115
Manganese	0.0066	J1	0.0200	0.0284		mg/L		109	90 - 114

Lab Sample ID: 410-16364-2 MSD

Matrix: Water

Analysis Batch: 54661

Client Sample ID: GWK016-2041

Prep Type: Dissolved

Prep Batch: 53441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.10	U J1	0.402	0.445		mg/L		111	87 - 115	1	20
Manganese	0.0066	J1	0.0200	0.0287		mg/L		111	90 - 114	1	20

Lab Sample ID: 410-16364-2 DU

Matrix: Water

Analysis Batch: 54661

Client Sample ID: GWK016-2041

Prep Type: Dissolved

Prep Batch: 53441

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	0.10	U J1	0.10	U	mg/L		NC	20
Manganese	0.0066	J1	0.00661	J	mg/L		0.2	20

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 410-53283/1-A

Matrix: Water

Analysis Batch: 54147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53283

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Arsenic	0.0016	U	0.0020	0.0016	0.00068	mg/L		10/13/20 14:49	1
Lead	0.00025	U	0.00050	0.00025	0.000071	mg/L		10/13/20 14:49	1

Lab Sample ID: LCS 410-53283/2-A

Matrix: Water

Analysis Batch: 54147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0600	0.0560		mg/L		93	84 - 116
Lead	0.0300	0.0292		mg/L		97	88 - 115

Lab Sample ID: 410-16364-2 MS

Matrix: Water

Analysis Batch: 54147

Client Sample ID: GWK016-2041

Prep Type: Total/NA

Prep Batch: 53283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.023	J1	0.0600	0.0779		mg/L		92	84 - 116
Lead	0.00013	J	0.0300	0.0295		mg/L		98	88 - 115

Lab Sample ID: 410-16364-2 MSD

Matrix: Water

Analysis Batch: 54147

Client Sample ID: GWK016-2041

Prep Type: Total/NA

Prep Batch: 53283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.023	J1	0.0600	0.0790		mg/L		94	84 - 116	1	20
Lead	0.00013	J	0.0300	0.0295		mg/L		98	88 - 115	0	20

Lab Sample ID: 410-16364-2 DU

Matrix: Water

Analysis Batch: 54147

Client Sample ID: GWK016-2041

Prep Type: Total/NA

Prep Batch: 53283

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.023	J1	0.0222		mg/L		2	20
Lead	0.00013	J	0.000134	J	mg/L		3	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 410-53356/65

Matrix: Water

Analysis Batch: 53356

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:51	1
Carbonate Alkalinity as CaCO ₃	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:51	1
Total Alkalinity as CaCO ₃ to pH 4.5	6.0	U	8.0	6.0	8.0	mg/L		10/10/20 02:51	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 410-53356/66

Matrix: Water

Analysis Batch: 53356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO ₃ to pH 4.5	189	171		mg/L		91	82 - 106

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 410-57542/92

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Nitrate Nitrite as N	0.090	U	0.10	0.090	0.040	mg/L		10/22/20 12:31	1

Lab Sample ID: LCS 410-57542/93

Matrix: Water

Analysis Batch: 57542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	2.50	2.46		mg/L		98	90 - 110

Method: 4500 NH3 C-2011 - Ammonia

Lab Sample ID: MB 410-53720/1-A

Matrix: Water

Analysis Batch: 53824

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 53720

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Ammonia-N	0.60	U	0.75	0.60	0.25	mg/L		10/13/20 13:26	1

Lab Sample ID: LCS 410-53720/2-A

Matrix: Water

Analysis Batch: 53824

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 53720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia-N	500	494		mg/L		99	93 - 100

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 410-52859/1

Matrix: Water

Analysis Batch: 52859

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	LOD	DL	Unit	D	Analyzed	Dil Fac
Sulfide	1.5	U	2.0	1.5	0.70	mg/L		10/09/20 15:13	1

Lab Sample ID: LCS 410-52859/2

Matrix: Water

Analysis Batch: 52859

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	20.1	18.9		mg/L		94	80 - 120

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCSD 410-52859/3

Matrix: Water

Analysis Batch: 52859

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	20.1	18.3		mg/L	-	91	80 - 120	3	9

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QC Association Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

HPLC/IC

Analysis Batch: 53707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total/NA	Water	EPA 300.0 R2.1	
410-16364-2	GWK016-2041	Total/NA	Water	EPA 300.0 R2.1	
410-16364-2	GWK016-2041	Total/NA	Water	EPA 300.0 R2.1	
410-16364-3	GWVA2-2041	Total/NA	Water	EPA 300.0 R2.1	
410-16364-4	GWK015-2041	Total/NA	Water	EPA 300.0 R2.1	
410-16364-4	GWK015-2041	Total/NA	Water	EPA 300.0 R2.1	
MB 410-53707/4	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-53707/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 53101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total Recoverable	Water	3005A	
MB 410-53101/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53101/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 53283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total/NA	Water	3020A	
410-16364-2	GWK016-2041	Total/NA	Water	3020A	
410-16364-3	GWVA2-2041	Total/NA	Water	3020A	
410-16364-4	GWK015-2041	Total/NA	Water	3020A	
MB 410-53283/1-A	Method Blank	Total/NA	Water	3020A	
LCS 410-53283/2-A	Lab Control Sample	Total/NA	Water	3020A	
410-16364-2 MS	GWK016-2041	Total/NA	Water	3020A	
410-16364-2 MSD	GWK016-2041	Total/NA	Water	3020A	
410-16364-2 DU	GWK016-2041	Total/NA	Water	3020A	

Prep Batch: 53441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Dissolved	Water	Non-Digest Prep	
410-16364-2	GWK016-2041	Dissolved	Water	Non-Digest Prep	
410-16364-3	GWVA2-2041	Dissolved	Water	Non-Digest Prep	
410-16364-4	GWK015-2041	Dissolved	Water	Non-Digest Prep	
MB 410-53441/1-A	Method Blank	Total/NA	Water	Non-Digest Prep	
LCS 410-53441/2-A	Lab Control Sample	Total/NA	Water	Non-Digest Prep	
410-16364-2 MS	GWK016-2041	Dissolved	Water	Non-Digest Prep	
410-16364-2 MSD	GWK016-2041	Dissolved	Water	Non-Digest Prep	
410-16364-2 DU	GWK016-2041	Dissolved	Water	Non-Digest Prep	

Prep Batch: 53748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-2	GWK016-2041	Total Recoverable	Water	3005A	
410-16364-3	GWVA2-2041	Total Recoverable	Water	3005A	
410-16364-4	GWK015-2041	Total Recoverable	Water	3005A	
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Metals

Analysis Batch: 54147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total/NA	Water	6020A	53283
410-16364-2	GWK016-2041	Total/NA	Water	6020A	53283
410-16364-3	GWVA2-2041	Total/NA	Water	6020A	53283
410-16364-4	GWK015-2041	Total/NA	Water	6020A	53283
MB 410-53283/1-A	Method Blank	Total/NA	Water	6020A	53283
LCS 410-53283/2-A	Lab Control Sample	Total/NA	Water	6020A	53283
410-16364-2 MS	GWK016-2041	Total/NA	Water	6020A	53283
410-16364-2 MSD	GWK016-2041	Total/NA	Water	6020A	53283
410-16364-2 DU	GWK016-2041	Total/NA	Water	6020A	53283

Analysis Batch: 54661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Dissolved	Water	6010C	53441
410-16364-2	GWK016-2041	Dissolved	Water	6010C	53441
410-16364-3	GWVA2-2041	Dissolved	Water	6010C	53441
410-16364-4	GWK015-2041	Dissolved	Water	6010C	53441
MB 410-53441/1-A	Method Blank	Total/NA	Water	6010C	53441
LCS 410-53441/2-A	Lab Control Sample	Total/NA	Water	6010C	53441
410-16364-2 MS	GWK016-2041	Dissolved	Water	6010C	53441
410-16364-2 MSD	GWK016-2041	Dissolved	Water	6010C	53441
410-16364-2 DU	GWK016-2041	Dissolved	Water	6010C	53441

Analysis Batch: 55263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-2	GWK016-2041	Total Recoverable	Water	6010C	53748
410-16364-3	GWVA2-2041	Total Recoverable	Water	6010C	53748
410-16364-4	GWK015-2041	Total Recoverable	Water	6010C	53748
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	6010C	53748
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53748

Analysis Batch: 55664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-2	GWK016-2041	Total Recoverable	Water	6010C	53748
410-16364-3	GWVA2-2041	Total Recoverable	Water	6010C	53748
410-16364-4	GWK015-2041	Total Recoverable	Water	6010C	53748
MB 410-53748/1-A	Method Blank	Total Recoverable	Water	6010C	53748
LCS 410-53748/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53748

Analysis Batch: 55680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total Recoverable	Water	6010C	53101
MB 410-53101/1-A	Method Blank	Total Recoverable	Water	6010C	53101

Analysis Batch: 55973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total Recoverable	Water	6010C	53101

Analysis Batch: 56658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total Recoverable	Water	6010C	53101
LCS 410-53101/2-A	Lab Control Sample	Total Recoverable	Water	6010C	53101

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

General Chemistry

Analysis Batch: 52859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total/NA	Water	4500 S2 F-2011	
410-16364-2	GWK016-2041	Total/NA	Water	4500 S2 F-2011	
410-16364-3	GWVA2-2041	Total/NA	Water	4500 S2 F-2011	
410-16364-4	GWK015-2041	Total/NA	Water	4500 S2 F-2011	
MB 410-52859/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 410-52859/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 410-52859/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 53356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total/NA	Water	2320B-2011	
410-16364-2	GWK016-2041	Total/NA	Water	2320B-2011	
410-16364-3	GWVA2-2041	Total/NA	Water	2320B-2011	
410-16364-4	GWK015-2041	Total/NA	Water	2320B-2011	
MB 410-53356/65	Method Blank	Total/NA	Water	2320B-2011	
LCS 410-53356/66	Lab Control Sample	Total/NA	Water	2320B-2011	

Prep Batch: 53720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total/NA	Water	4500 NH3 B-2011	
410-16364-2	GWK016-2041	Total/NA	Water	4500 NH3 B-2011	
410-16364-3	GWVA2-2041	Total/NA	Water	4500 NH3 B-2011	
410-16364-4	GWK015-2041	Total/NA	Water	4500 NH3 B-2011	
MB 410-53720/1-A	Method Blank	Total/NA	Water	4500 NH3 B-2011	
LCS 410-53720/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 B-2011	

Analysis Batch: 53824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total/NA	Water	4500 NH3 C-2011	53720
410-16364-2	GWK016-2041	Total/NA	Water	4500 NH3 C-2011	53720
410-16364-3	GWVA2-2041	Total/NA	Water	4500 NH3 C-2011	53720
410-16364-4	GWK015-2041	Total/NA	Water	4500 NH3 C-2011	53720
MB 410-53720/1-A	Method Blank	Total/NA	Water	4500 NH3 C-2011	53720
LCS 410-53720/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 C-2011	53720

Analysis Batch: 57542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16364-1	GWK003-2041	Total/NA	Water	353.2	
410-16364-2	GWK016-2041	Total/NA	Water	353.2	
410-16364-3	GWVA2-2041	Total/NA	Water	353.2	
410-16364-4	GWK015-2041	Total/NA	Water	353.2	
MB 410-57542/92	Method Blank	Total/NA	Water	353.2	

Eurofins Lancaster Laboratories Env, LLC

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

General Chemistry (Continued)

Analysis Batch: 57542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-57542/93	Lab Control Sample	Total/NA	Water	353.2	

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Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Client Sample ID: GWK003-2041

Lab Sample ID: 410-16364-1

Date Collected: 10/06/20 10:30

Matrix: Water

Date Received: 10/07/20 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5	53707	10/13/20 12:27	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 21:36	UCIG	ELLE
Total Recoverable	Prep	3005A			53101	10/12/20 03:56	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55973	10/19/20 15:17	UPJE	ELLE
Total Recoverable	Prep	3005A			53101	10/12/20 03:56	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55680	10/18/20 15:37	UPJE	ELLE
Total Recoverable	Prep	3005A			53101	10/12/20 03:56	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	56658	10/21/20 05:12	ULJC	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:22	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 05:27	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:08	KGQ6	ELLE
Total/NA	Prep	4500 NH3 B-2011			53720	10/13/20 09:40	UYB0	ELLE
Total/NA	Analysis	4500 NH3 C-2011		1	53824	10/13/20 13:26	UYB0	ELLE
Total/NA	Analysis	4500 S2 F-2011		1	52859	10/09/20 15:13	P8DZ	ELLE

Client Sample ID: GWK016-2041

Lab Sample ID: 410-16364-2

Date Collected: 10/06/20 09:15

Matrix: Water

Date Received: 10/07/20 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5	53707	10/13/20 13:04	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53707	10/13/20 13:22	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 21:00	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55263	10/16/20 10:45	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:00	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 14:53	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 05:34	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:09	KGQ6	ELLE
Total/NA	Prep	4500 NH3 B-2011			53720	10/13/20 09:40	UYB0	ELLE
Total/NA	Analysis	4500 NH3 C-2011		1	53824	10/13/20 13:26	UYB0	ELLE
Total/NA	Analysis	4500 S2 F-2011		1	52859	10/09/20 15:13	P8DZ	ELLE

Client Sample ID: GWVA2-2041

Lab Sample ID: 410-16364-3

Date Collected: 10/06/20 11:17

Matrix: Water

Date Received: 10/07/20 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5	53707	10/13/20 13:40	GJ35	ELLE

Eurofins Lancaster Laboratories Env, LLC

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Client Sample ID: GWVA2-2041

Lab Sample ID: 410-16364-3

Date Collected: 10/06/20 11:17

Matrix: Water

Date Received: 10/07/20 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 21:33	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55263	10/16/20 10:48	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:04	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:23	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 05:42	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:10	KGQ6	ELLE
Total/NA	Prep	4500 NH3 B-2011			53720	10/13/20 09:40	UYB0	ELLE
Total/NA	Analysis	4500 NH3 C-2011		1	53824	10/13/20 13:26	UYB0	ELLE
Total/NA	Analysis	4500 S2 F-2011		1	52859	10/09/20 15:13	P8DZ	ELLE

Client Sample ID: GWK015-2041

Lab Sample ID: 410-16364-4

Date Collected: 10/06/20 10:00

Matrix: Water

Date Received: 10/07/20 10:59

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		5	53707	10/13/20 14:16	GJ35	ELLE
Total/NA	Analysis	EPA 300.0 R2.1		50	53707	10/13/20 14:34	GJ35	ELLE
Dissolved	Prep	Non-Digest Prep			53441	10/12/20 18:43	UJLA	ELLE
Dissolved	Analysis	6010C		1	54661	10/14/20 22:04	UCIG	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55263	10/16/20 10:52	UPJE	ELLE
Total Recoverable	Prep	3005A			53748	10/13/20 09:59	UJL8	ELLE
Total Recoverable	Analysis	6010C		1	55664	10/18/20 12:07	UPJE	ELLE
Total/NA	Prep	3020A			53283	10/12/20 10:44	UJL8	ELLE
Total/NA	Analysis	6020A		1	54147	10/13/20 15:25	V5SW	ELLE
Total/NA	Analysis	2320B-2011		1	53356	10/10/20 05:50	JB	ELLE
Total/NA	Analysis	353.2		1	57542	10/22/20 13:14	KGQ6	ELLE
Total/NA	Prep	4500 NH3 B-2011			53720	10/13/20 09:40	UYB0	ELLE
Total/NA	Analysis	4500 NH3 C-2011		1	53824	10/13/20 13:26	UYB0	ELLE
Total/NA	Analysis	4500 S2 F-2011		1	52859	10/09/20 15:13	P8DZ	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Lancaster Laboratories Env, LLC

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	1.01	11-29-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
4500 NH3 C-2011	4500 NH3 B-2011	Water	Ammonia-N

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Eurofins Lancaster Laboratories Env, LLC

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
6010C	Metals (ICP)	SW846	ELLE
6020A	Metals (ICP/MS)	SW846	ELLE
2320B-2011	Alkalinity, Total	SM	ELLE
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	ELLE
4500 NH3 C-2011	Ammonia	SM	ELLE
4500 S2 F-2011	Sulfide, Total	SM	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3020A	Preparation, Total Metals	SW846	ELLE
4500 NH3 B-2011	Ammonia, Distillation	SM	ELLE
Non-Digest Prep	Preparation, Non-Digested Aqueous Metals	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: EA Engineering, Science, and Technology
Project/Site: Kirtland AFB Bulk Fuels Facility

Job ID: 410-16364-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-16364-1	GWK003-2041	Water	10/06/20 10:30	10/07/20 10:59	
410-16364-2	GWK016-2041	Water	10/06/20 09:15	10/07/20 10:59	
410-16364-3	GWVA2-2041	Water	10/06/20 11:17	10/07/20 10:59	
410-16364-4	GWK015-2041	Water	10/06/20 10:00	10/07/20 10:59	

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410-16364 Chain of Custody

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K003-2041	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				YEAR: 2020 QUARTER: 4 - October			
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 21295				LAB CONTACT: Kate Hower KateHower@eurofinsUS.com Eurofins 1 (717) 556-7258							
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cu, K, Na, Mg) (8011)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (8010C)	Nitrate-Nitrite (353.2)	Ammonia (SM4500NH3)	Sulfide (SM4500SCF)	Alkalinity (SM2320B)	COMMENTS
1	GWK003-2041	10/6/2020	1030	7					1	1*	1	1	1	1	
2															
3															
4															
5															
6															
*Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): G. Bracht, P. Andelman				COURIER AND SHIPPING NUMBER: FedEx 856 5977 6728											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: G. Bracht				10/6/2020	1500	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Reiff				10/7/20	1036	KAM			

qm

EA		225 Schling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K016-2041	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kate Hower KateHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 - October			
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, K, Na, Mg) (8011)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (6010C)	Nitrate-Nitrite (353.2)	Ammonia (SM4500NH3)	Sulfide (SM4500SCF)	Alkalinity (SM4500SCF)	Comments
1	GWK016-2041	10/6/2020	0915	11				3	3*	1	1	1	1	1	See Comments for requested MS/MSD analytes
2			0815												
3															
4															
5															
6															
*Dissolved Fe, Mn aliquot was field filtered															
Please run MS/MSD on the following analytes only: Total As and Pb, and dissolved Mn and Fe															
SAMPLER(S): G. Bracht, E. Andelman				COURIER AND SHIPPING NUMBER: FedEx 8156 5977 6728											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: GINNY BRACHT				10/6/2020	1500	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Nicole Reiff				10/7/20	1036				

qcm

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1825		CHAIN-OF-CUSTODY RECORD										COC NUMBER COC-K015-2041	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 6360401		LABORATORY NAME AND CONTACT: Eurofins Lancaster Laboratories 2425 New Holland Pike Lancaster PA 17601				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA				YEAR: 2020			
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 21295		LAB CONTACT: Kate Hower KateHower@eurofinsUS.com Eurofins 1 (717) 556-7258				FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 - October			
				ANALYSIS REQUIRED (Specify number of bottles)											
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	Total Number of Bottles	VOCs (8260C)	BTEX (8260C)	ED8 (8260C)	Total (As, Pb, Cd, K, Na, Mg) (8020A/8010C)	Dissolved Fe, Mn (8020A/8010C)	Chloride, bromide, sulfate (300.0)	Nitrate-Nitrite (353.2)	Ammonia (SM4500NH3)	Sulfide (SM4500S2CF)	Alkalinity (SM2320B)	COMMENTS
1	GWK015-2041	10/6/2020	1000	7				1	1*	1	1	1	1	1	
2															
3															
4															
5															
6															
*Dissolved Fe, Mn aliquot was field filtered															
SAMPLER(S): G. Bracht, E. Andelman				COURIER AND SHIPPING NUMBER: FedEx 8156 5977 6739											
RELINQUISHED BY:				DATE	TIME	RECEIVED BY:				DATE	TIME				
Printed Name and Signature: GINNY BRACHT				10/6/2020	1500	Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature:									
Printed Name and Signature:						Printed Name and Signature: Chad Wettig				10/2/20	10:59				

gem

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 410-16364-1

Login Number: 16364**List Source: Eurofins Lancaster Laboratories Env****List Number: 1****Creator: Colon Martinez, Jessenia C**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	



eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-189669-1

Client Project/Site: Production/Irrigation Well, Kirtland AFB

For:

EA Engineering, Science, and Technology
7995 E. Prentice Ave, Suite 206E
Greenwood Village, Colorado 80111

Attn: Pamela J Moss

Authorized for release by:
10/16/2020 4:54:10 PM

Dylan Bieniulis, Project Manager I
(303)736-0138
Dylan.Bieniulis@Eurofinset.com

LINKS

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results through
TotalAccess

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Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins TestAmerica, Savannah

Sample Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-189669-1	TB2041-01	Water	10/06/20 08:10	10/07/20 09:50	
680-189669-2	GWK015-2041	Water	10/06/20 10:00	10/07/20 09:50	
680-189669-3	GWVA2-2041	Water	10/06/20 11:17	10/07/20 09:50	
680-189669-4	GWK003-2041	Water	10/06/20 10:30	10/07/20 09:50	
680-189669-5	GWK016-2041	Water	10/06/20 09:15	10/07/20 09:50	
680-189669-6	TB2041-02	Water	10/06/20 08:10	10/07/20 09:50	

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Eurofins TestAmerica, Savannah

Case Narrative

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Job ID: 680-189669-1**Laboratory: Eurofins TestAmerica, Savannah****Narrative****CASE NARRATIVE****Client: EA Engineering, Science, and Technology****Project: Production/Irrigation Well, Kirtland AFB****Report Number: 680-189669-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 10/7/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.6° C and 5.2° C.

DRINKING WATER VOLATILES (GC-MS)

Samples TB2041-01 (680-189669-1), GWK015-2041 (680-189669-2), GWVA2-2041 (680-189669-3), GWK003-2041 (680-189669-4), GWK016-2041 (680-189669-5) and TB2041-02 (680-189669-6) were analyzed for drinking water volatiles (GC-MS) in accordance with EPA Method 524.2. The samples were analyzed on 10/15/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

EDB

Samples TB2041-01 (680-189669-1), GWK015-2041 (680-189669-2), GWVA2-2041 (680-189669-3), GWK003-2041 (680-189669-4), GWK016-2041 (680-189669-5) and TB2041-02 (680-189669-6) were analyzed for EDB in accordance with EPA Method 504.1. The samples were prepared and analyzed on 10/09/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Client Sample ID: TB2041-01

Lab Sample ID: 680-189669-1

Date Collected: 10/06/20 08:10

Matrix: Water

Date Received: 10/07/20 09:50

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			10/15/20 13:10	1
Ethylbenzene	ND		0.50	0.099	ug/L			10/15/20 13:10	1
Toluene	ND		0.50	0.086	ug/L			10/15/20 13:10	1
Xylenes, Total	ND		0.50	0.086	ug/L			10/15/20 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	98		70 - 130		10/15/20 13:10	1
4-Bromofluorobenzene	86		70 - 130		10/15/20 13:10	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.017	0.0024	ug/L		10/09/20 14:25	10/09/20 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	104		70 - 130	10/09/20 14:25	10/09/20 17:24	1

Client Sample ID: GWK015-2041

Lab Sample ID: 680-189669-2

Date Collected: 10/06/20 10:00

Matrix: Water

Date Received: 10/07/20 09:50

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			10/15/20 14:10	1
Ethylbenzene	ND		0.50	0.099	ug/L			10/15/20 14:10	1
Toluene	ND		0.50	0.086	ug/L			10/15/20 14:10	1
Xylenes, Total	ND		0.50	0.086	ug/L			10/15/20 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	97		70 - 130		10/15/20 14:10	1
4-Bromofluorobenzene	83		70 - 130		10/15/20 14:10	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		10/09/20 14:25	10/09/20 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	105		70 - 130	10/09/20 14:25	10/09/20 17:34	1

Client Sample ID: GWVA2-2041

Lab Sample ID: 680-189669-3

Date Collected: 10/06/20 11:17

Matrix: Water

Date Received: 10/07/20 09:50

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			10/15/20 14:30	1
Ethylbenzene	ND		0.50	0.099	ug/L			10/15/20 14:30	1
Toluene	ND		0.50	0.086	ug/L			10/15/20 14:30	1
Xylenes, Total	ND		0.50	0.086	ug/L			10/15/20 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	105		70 - 130		10/15/20 14:30	1
4-Bromofluorobenzene	83		70 - 130		10/15/20 14:30	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Client Sample ID: GWVA2-2041

Lab Sample ID: 680-189669-3

Date Collected: 10/06/20 11:17

Matrix: Water

Date Received: 10/07/20 09:50

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.017	0.0024	ug/L		10/09/20 14:25	10/09/20 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	104		70 - 130				10/09/20 14:25	10/09/20 17:43	1

Client Sample ID: GWK003-2041

Lab Sample ID: 680-189669-4

Date Collected: 10/06/20 10:30

Matrix: Water

Date Received: 10/07/20 09:50

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			10/15/20 14:50	1
Ethylbenzene	ND		0.50	0.099	ug/L			10/15/20 14:50	1
Toluene	ND		0.50	0.086	ug/L			10/15/20 14:50	1
Xylenes, Total	ND		0.50	0.086	ug/L			10/15/20 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	106		70 - 130					10/15/20 14:50	1
4-Bromofluorobenzene	85		70 - 130					10/15/20 14:50	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		10/09/20 14:25	10/09/20 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	89		70 - 130				10/09/20 14:25	10/09/20 17:53	1

Client Sample ID: GWK016-2041

Lab Sample ID: 680-189669-5

Date Collected: 10/06/20 09:15

Matrix: Water

Date Received: 10/07/20 09:50

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			10/15/20 18:32	1
Ethylbenzene	ND		0.50	0.099	ug/L			10/15/20 18:32	1
Toluene	ND		0.50	0.086	ug/L			10/15/20 18:32	1
Xylenes, Total	ND		0.50	0.086	ug/L			10/15/20 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	108		70 - 130					10/15/20 18:32	1
4-Bromofluorobenzene	84		70 - 130					10/15/20 18:32	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		10/09/20 14:25	10/09/20 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	107		70 - 130				10/09/20 14:25	10/09/20 16:54	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Client Sample ID: TB2041-02

Lab Sample ID: 680-189669-6

Date Collected: 10/06/20 08:10

Matrix: Water

Date Received: 10/07/20 09:50

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			10/15/20 13:30	1
Ethylbenzene	ND		0.50	0.099	ug/L			10/15/20 13:30	1
Toluene	ND		0.50	0.086	ug/L			10/15/20 13:30	1
Xylenes, Total	ND		0.50	0.086	ug/L			10/15/20 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	103		70 - 130		10/15/20 13:30	1
4-Bromofluorobenzene	84		70 - 130		10/15/20 13:30	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		10/09/20 14:25	10/09/20 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	91		70 - 130	10/09/20 14:25	10/09/20 18:03	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-639019/10

Matrix: Water

Analysis Batch: 639019

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			10/15/20 12:37	1
Ethylbenzene	ND		0.50	0.099	ug/L			10/15/20 12:37	1
Toluene	ND		0.50	0.086	ug/L			10/15/20 12:37	1
Xylenes, Total	ND		0.50	0.086	ug/L			10/15/20 12:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	102		70 - 130		10/15/20 12:37	1
4-Bromofluorobenzene	86		70 - 130		10/15/20 12:37	1

Lab Sample ID: LCS 680-639019/4

Matrix: Water

Analysis Batch: 639019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	17.1		ug/L		85	70 - 130
Ethylbenzene	20.0	14.7		ug/L		74	70 - 130
Toluene	20.0	18.5		ug/L		93	70 - 130
Xylenes, Total	40.0	32.7		ug/L		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene	101		70 - 130

Lab Sample ID: LCSD 680-639019/5

Matrix: Water

Analysis Batch: 639019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	18.1		ug/L		91	70 - 130	6	20
Ethylbenzene	20.0	16.1		ug/L		81	70 - 130	9	20
Toluene	20.0	19.7		ug/L		98	70 - 130	6	20
Xylenes, Total	40.0	34.4		ug/L		86	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene	99		70 - 130

Lab Sample ID: 680-189669-5 MS

Matrix: Water

Analysis Batch: 639019

Client Sample ID: GWK016-2041

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	18.5		ug/L		92	70 - 130
Ethylbenzene	ND		20.0	15.7		ug/L		79	70 - 130
Toluene	ND		20.0	20.1		ug/L		100	70 - 130
Xylenes, Total	ND		40.0	33.7		ug/L		84	70 - 130

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-189669-5 MS

Matrix: Water

Analysis Batch: 639019

Client Sample ID: GWK016-2041

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene	97		70 - 130

Lab Sample ID: 680-189669-5 MSD

Matrix: Water

Analysis Batch: 639019

Client Sample ID: GWK016-2041

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	18.6		ug/L		93	70 - 130	0	20
Ethylbenzene	ND		20.0	16.2		ug/L		81	70 - 130	3	20
Toluene	ND		20.0	19.9		ug/L		100	70 - 130	1	20
Xylenes, Total	ND		40.0	35.0		ug/L		87	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene	97		70 - 130

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-638242/3-A

Matrix: Water

Analysis Batch: 638250

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 638242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		10/09/20 14:25	10/09/20 16:15	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Pentachloroethane	112		70 - 130	10/09/20 14:25	10/09/20 16:15	1			

Lab Sample ID: LCS 680-638242/4-A

Matrix: Water

Analysis Batch: 638250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 638242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylene Dibromide	0.100	0.103		ug/L		103	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Pentachloroethane	110		70 - 130

Lab Sample ID: LCSD 680-638242/5-A

Matrix: Water

Analysis Batch: 638250

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 638242

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	0.100	0.101		ug/L		101	70 - 130	2	30

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QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 680-638242/5-A

Matrix: Water

Analysis Batch: 638250

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 638242

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Pentachloroethane	105		70 - 130

Lab Sample ID: 680-189669-5 MS

Matrix: Water

Analysis Batch: 638250

Client Sample ID: GWK016-2041

Prep Type: Total/NA

Prep Batch: 638242

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylene Dibromide	ND		0.0986	0.0978		ug/L		99	70 - 130	
Surrogate	MS	MS								
	%Recovery	Qualifier	Limits							
Pentachloroethane	101		70 - 130							

Lab Sample ID: 680-189669-5 MSD

Matrix: Water

Analysis Batch: 638250

Client Sample ID: GWK016-2041

Prep Type: Total/NA

Prep Batch: 638242

	Sample	Sample	Spike	MSD	MSD				%Rec.	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylene Dibromide	ND		0.0964	0.0953		ug/L		99	70 - 130	3	30
Surrogate	MSD	MSD									
	%Recovery	Qualifier	Limits								
Pentachloroethane	105		70 - 130								

Eurofins TestAmerica, Savannah

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

GC/MS VOA

Analysis Batch: 639019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-189669-1	TB2041-01	Total/NA	Water	524.2	
680-189669-2	GWK015-2041	Total/NA	Water	524.2	
680-189669-3	GWVA2-2041	Total/NA	Water	524.2	
680-189669-4	GWK003-2041	Total/NA	Water	524.2	
680-189669-5	GWK016-2041	Total/NA	Water	524.2	
680-189669-6	TB2041-02	Total/NA	Water	524.2	
MB 680-639019/10	Method Blank	Total/NA	Water	524.2	
LCS 680-639019/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-639019/5	Lab Control Sample Dup	Total/NA	Water	524.2	
680-189669-5 MS	GWK016-2041	Total/NA	Water	524.2	
680-189669-5 MSD	GWK016-2041	Total/NA	Water	524.2	

GC Semi VOA

Prep Batch: 638242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-189669-1	TB2041-01	Total/NA	Water	504.1	
680-189669-2	GWK015-2041	Total/NA	Water	504.1	
680-189669-3	GWVA2-2041	Total/NA	Water	504.1	
680-189669-4	GWK003-2041	Total/NA	Water	504.1	
680-189669-5	GWK016-2041	Total/NA	Water	504.1	
680-189669-6	TB2041-02	Total/NA	Water	504.1	
MB 680-638242/3-A	Method Blank	Total/NA	Water	504.1	
LCS 680-638242/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-638242/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	
680-189669-5 MS	GWK016-2041	Total/NA	Water	504.1	
680-189669-5 MSD	GWK016-2041	Total/NA	Water	504.1	

Analysis Batch: 638250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-189669-1	TB2041-01	Total/NA	Water	504.1	638242
680-189669-2	GWK015-2041	Total/NA	Water	504.1	638242
680-189669-3	GWVA2-2041	Total/NA	Water	504.1	638242
680-189669-4	GWK003-2041	Total/NA	Water	504.1	638242
680-189669-5	GWK016-2041	Total/NA	Water	504.1	638242
680-189669-6	TB2041-02	Total/NA	Water	504.1	638242
MB 680-638242/3-A	Method Blank	Total/NA	Water	504.1	638242
LCS 680-638242/4-A	Lab Control Sample	Total/NA	Water	504.1	638242
LCSD 680-638242/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	638242
680-189669-5 MS	GWK016-2041	Total/NA	Water	504.1	638242
680-189669-5 MSD	GWK016-2041	Total/NA	Water	504.1	638242

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Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Client Sample ID: TB2041-01

Lab Sample ID: 680-189669-1

Date Collected: 10/06/20 08:10

Matrix: Water

Date Received: 10/07/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	639019	10/15/20 13:10	Y1S	TAL SAV
Instrument ID: CMSU										
Total/NA	Prep	504.1			36.3 mL	2 mL	638242	10/09/20 14:25	DC	TAL SAV
Total/NA	Analysis	504.1		1			638250	10/09/20 17:24	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWK015-2041

Lab Sample ID: 680-189669-2

Date Collected: 10/06/20 10:00

Matrix: Water

Date Received: 10/07/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	639019	10/15/20 14:10	Y1S	TAL SAV
Instrument ID: CMSU										
Total/NA	Prep	504.1			35.5 mL	2 mL	638242	10/09/20 14:25	DC	TAL SAV
Total/NA	Analysis	504.1		1			638250	10/09/20 17:34	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWVA2-2041

Lab Sample ID: 680-189669-3

Date Collected: 10/06/20 11:17

Matrix: Water

Date Received: 10/07/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	639019	10/15/20 14:30	Y1S	TAL SAV
Instrument ID: CMSU										
Total/NA	Prep	504.1			36.5 mL	2 mL	638242	10/09/20 14:25	DC	TAL SAV
Total/NA	Analysis	504.1		1			638250	10/09/20 17:43	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWK003-2041

Lab Sample ID: 680-189669-4

Date Collected: 10/06/20 10:30

Matrix: Water

Date Received: 10/07/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	639019	10/15/20 14:50	Y1S	TAL SAV
Instrument ID: CMSU										
Total/NA	Prep	504.1			35.6 mL	2 mL	638242	10/09/20 14:25	DC	TAL SAV
Total/NA	Analysis	504.1		1			638250	10/09/20 17:53	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWK016-2041

Lab Sample ID: 680-189669-5

Date Collected: 10/06/20 09:15

Matrix: Water

Date Received: 10/07/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	639019	10/15/20 18:32	Y1S	TAL SAV
Instrument ID: CMSU										

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Client Sample ID: GWK016-2041

Lab Sample ID: 680-189669-5

Date Collected: 10/06/20 09:15

Matrix: Water

Date Received: 10/07/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	504.1			35.6 mL	2 mL	638242	10/09/20 14:25	DC	TAL SAV
Total/NA	Analysis	504.1		1			638250	10/09/20 16:54	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: TB2041-02

Lab Sample ID: 680-189669-6

Date Collected: 10/06/20 08:10

Matrix: Water

Date Received: 10/07/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	639019	10/15/20 13:30	Y1S	TAL SAV
Instrument ID: CMSU										
Total/NA	Prep	504.1			35.1 mL	2 mL	638242	10/09/20 14:25	DC	TAL SAV
Total/NA	Analysis	504.1		1			638250	10/09/20 18:03	JCK	TAL SAV
Instrument ID: CSGX										

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	GA00006	06-30-21

1

2

3

4

5

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7

8

9

10

11

12

Eurofins TestAmerica, Savannah

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-189669-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL SAV
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	TAL SAV
504.1	Microextraction	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah

EA				225 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1025				CHAIN-OF-CUSTODY RECORD				COC NUMBER COC-TB2041-01				
PROJECT NAME: Kirtland AFB Bulk Fuels Facility				PROJECT NUMBER: 62735DM02				LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020 QUARTER: 4 - October				
PROJECT SITE AND PHASE: ST106/SS111				LAB PO NUMBER: 18929				LAB CONTACT: 1 (912) 354-7858								
SAMPLE IDENTIFIER		DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)								COMMENTS				
ITEM				(4500 S2CF) Sulfide	(4500NH3B/C) Ammonia Nitrogen	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(353.2) Nitrate-Nitrite	(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As, Pb, Ca, K, Na, Mg)	(EPA Method 504.1) EDB	(EPA Method 524.2) BTEXN	(EPA Method 524.2) BTEX	(EPA Method 524.2) VOCs	Total Number of Bottles	
1	TB2041- 01	10/6/2020	0810												4	
2																
3																
4																
5																
6																


 680-189669 Chain of Custody

Associated with:
 GWIAZ-2041
 GWK015-2041

SAMPLER(S): G. Braehl		RELINQUISHED BY:		COURIER AND SHIPPING NUMBER: FedEx 1864 9067 7244	
Printed Name and Signature:	DATE	TIME	Printed Name and Signature:	DATE	TIME
Gunny Braehl	10/6/2020	1500	G. Braehl	10-07-20	0950

5.0 (CF) 5.2°C

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EA		CHAIN-OF-CUSTODY RECORD		COC NUMBER	
225 Scolding Circle Suite 400 Hunt Valley RD Tel No (410) 594-7000 Fax No (410) 771-1025		PROJECT NAME: Kirtland AFB Bulk Fuels Facility		COC-K015-2041	
PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA		QUARTER: 4 - October	
LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)	COMMENTS
1	GWK015-2041	10/16/2020	1000	(4500 S2CF) Sulfide	
2				(4500NH3B/C) Ammonia Nitrogen	
3				(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	
4				(353.2) Nitrate-Nitrite	
5				(300.0A) Chloride, bromide, sulfate	
6				(6010C) Dissolved Fe, Mn	
				(6020A/6010C) Total (As, Pb, Ca, K, Na, Mg)	
				(EPA Method 504.1) EDB	
				(EPA Method 524.2) BTEXN	
				(EPA Method 524.2) BTEX	
				(EPA Method 524.2) VOCs	
				Total Number of Bottles	
COURIER AND SHIPPING NUMBER: FedEx 1864 9067 7244 RECEIVED BY: <i>[Signature]</i> 10-07-20 0950 TB2041- 01 DATE: 10/16/2020 TIME: 1500 SAMPLES: G. Bracht, E. Andelman RELINQUISHED BY: <i>[Signature]</i> Printed Name and Signature: Ginny Bracht Printed Name and Signature: <i>[Signature]</i> Printed Name and Signature: <i>[Signature]</i> 5.0 (cf) 5.2%					

EA		225 Schilling Circle Suite 400 Hart Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1025		PROJECT NUMBER: 62735DM02		PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA Pam Moss: pmoss@eaest.com EA		COC NUMBER COC-VA2-2041		YEAR: 2020 QUARTER: 4 - October	
CHAIN-OF-CUSTODY RECORD																					
ANALYSIS REQUIRED (Specify number of bottles)		COMMENTS																			
		(4500 S2CF) Sulfide																			
		(4500NH3B/C) Ammonia Nitrogen																			
		(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)																			
		(353.2) Nitrate-Nitrite																			
		(300.0A) Chloride, bromide, sulfate																			
		(6010C) Dissolved Fe, Mn																			
		(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)																			
		(EPA Method 504.1) EDB																			
		(EPA Method 524.2) BTEXN																			
		(EPA Method 524.2) BTEX																			
		(EPA Method 524.2) VOCs																			
		Total Number of Bottles																			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED																		
1	GWVA2-2041	10/6/2020	1117																		
2																					
3																					
4																					
5																					
6																					
SAMPLER(S): G. Bracht, E. Andelman																					
RELINQUISHED BY: TB2041-01																					
COURIER AND SHIPPING NUMBER: FedEx 1864 90677244																					
RECEIVED BY:																					
Printed Name and Signature:		DATE		TIME																	
GINNY BEACHT		10/6/2020		1500																	
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10/16/2020

EA		CHAIN-OF-CUSTODY RECORD		COC NUMBER	
225 Scaling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		PROJECT NAME: Kirtland AFB Bulk Fuels Facility		COC-K016-2041	
PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		FAX AND MAIL REPORTS TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmith@eaest.com EA FAX AND MAIL REPORTS TO: Pam Moss: pmoss@eaest.com EA		QUARTER: 4 - October	
LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)	COMMENTS
1	GWK016-2041	10/6/2020	0915	(4500 S2CF) Sulfide (4500NH3B/C) Ammonia Nitrogen (2320B) Alkalinity (Total, Carbonate, and Bicarbonate) (353.2) Nitrate-Nitrite (300.0A) Chloride, bromide, sulfate (6010C) Dissolved Fe, Mn (6020A/6010C) Total (As,Pb,Ca,K,Na,Mg) (EPA Method 504.1) EDB (EPA Method 524.2) BTEXN (EPA Method 524.2) BTEX (EPA Method 524.2) VOCs Total Number of Bottles	Additional volume provided for MS/MSD
2					
3					
4					
5					
6					
COURIER AND SHIPPING NUMBER: FedEx 1347 4018 5668 RECEIVED BY: <i>[Signature]</i> 10-07-20 0958 TB2041-02 SAMPLES: G. Bracht, E. Andelman RELINQUISHED BY: <i>[Signature]</i> DATE: 10/6/2020 1500 TIME: 1500 Printed Name and Signature: GUNNY BRACHT Printed Name and Signature: <i>[Signature]</i> Printed Name and Signature: <i>[Signature]</i> Printed Name and Signature: 4.4 (C-7) 4.60					

EA		225 Schling Circle Suite 400 Hunt Valley, MD Tel No. (410) 594-7000 Fax No. (410) 711-1625		CHAIN-OF-CUSTODY RECORD		COC NUMBER		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		COC-TB2041-02		
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929		FAX AND MAIL REPORTS/EDD TO: Tara Lamond tiamond@eaast.com EA Amelia Smith: asmith@eaast.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaast.com EA		YEAR: 2020 QUARTER: 4 - October		
LAB CONTACT: 1 (912) 354-7858								
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)				COMMENTS
1	TB2041-02	10/6/2020	0810	(4500 S2CF) Sulfide	(4500NH3B/C) Ammonia Nitrogen	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(353.2) Nitrate-Nitrite	
2				(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As, Pb, Ca, K, Na, Mg)	(EPA Method 504.1) EDB	
3				(EPA Method 524.2) BTEXN	(EPA Method 524.2) BTEX	(EPA Method 524.2) VOCs	Total Number of Bottles	
4								
5								
6								

Associated with:
6WK 016-2041
6WK 003-2041

SAMPLER(S):	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
G. Bracht	G. Bracht	10/6/2020	1500	A. Lamond	10-07-20	0950
GUNY BRACHT						

4.4 (CF) 4.60c

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 680-189669-1

Login Number: 189669**List Source: Eurofins TestAmerica, Savannah****List Number: 1****Creator: Banda, Christy S**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-191010-1

Client Project/Site: Production/Irrigation Well, Kirtland AFB

For:

EA Engineering, Science, and Technology
7995 E. Prentice Ave, Suite 206E
Greenwood Village, Colorado 80111

Attn: Pamela J Moss

Authorized for release by:
11/17/2020 2:45:34 PM

Dylan Bieniulis, Project Manager I
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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*1	LCS/LCSD RPD exceeds control limits.
----	--------------------------------------

GC Semi VOA

Qualifier	Qualifier Description
-----------	-----------------------

F1	MS and/or MSD recovery exceeds control limits.
----	--

X	Surrogate recovery exceeds control limits
---	---

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Sample Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-191010-1	GWK015-2042	Water	11/03/20 09:30	11/04/20 09:30	
680-191010-2	GWVA2-2042	Water	11/03/20 10:47	11/04/20 09:30	
680-191010-3	GWVA2-6042	Water	11/03/20 10:47	11/04/20 09:30	
680-191010-4	TB2042-1	Water	11/03/20 08:00	11/04/20 09:30	
680-191041-1	GWK016-2042	Water	11/03/20 09:15	11/04/20 09:30	
680-191041-2	GWK003-2042	Water	11/03/20 10:00	11/04/20 09:30	
680-191041-3	TB2042-2	Water	11/03/20 08:00	11/04/20 09:30	

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Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Job ID: 680-191010-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: EA Engineering, Science, and Technology

Project: Production/Irrigation Well, Kirtland AFB

Report Number: 680-191010-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/4/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.6° C.

Laboratory login numbers 680-191010-1 and 680-191041-1 were combined into a single sample deliver group (SDG) for reporting per client request as the samples are from the same client project site and received on the same date.

DRINKING WATER VOLATILES (GC-MS)

Samples GWK015-2042 (680-191010-1), GWK016-2042 (680-191041-1), GWVA2-2042 (680-191010-2), GWK003-2042 (680-191041-2), GWVA2-6042 (680-191010-3), TB2042-2 (680-191041-3) and TB2042-1 (680-191010-4) were analyzed for drinking water volatiles (GC-MS) in accordance with EPA Method 524.2. The samples were analyzed on 11/12/2020 and 11/13/2020.

Benzene and Toluene exceeded the RPD limit for LCSD 680-643848/5. LCS and LCSD percent recoveries were within control limits. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

EDB

Samples GWK015-2042 (680-191010-1), GWK016-2042 (680-191041-1), GWVA2-2042 (680-191010-2), GWK003-2042 (680-191041-2), GWVA2-6042 (680-191010-3), TB2042-2 (680-191041-3) and TB2042-1 (680-191010-4) were analyzed for EDB in accordance with EPA Method 504.1. The samples were prepared on 11/06/2020 and 11/10/2020 and analyzed on 11/06/2020, 11/07/2020 and 11/11/2020.

Pentachloroethane failed the surrogate recovery criteria low for GWVA2-2042 (680-191010-2MS). The parent sample's surrogate recovery was within limits and the associated MS sample has been qualified and reported. Refer to the QC report for details.

Ethylene Dibromide failed the recovery criteria high for the MS of sample GWK003-2042 (680-191041-2) in batch 680-642766. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Client Sample ID: GWK015-2042

Lab Sample ID: 680-191010-1

Date Collected: 11/03/20 09:30

Matrix: Water

Date Received: 11/04/20 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			11/12/20 18:17	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/12/20 18:17	1
Toluene	ND		0.50	0.086	ug/L			11/12/20 18:17	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/12/20 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	109		70 - 130		11/12/20 18:17	1
4-Bromofluorobenzene	95		70 - 130		11/12/20 18:17	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		11/06/20 14:54	11/07/20 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	89		70 - 130	11/06/20 14:54	11/07/20 13:12	1

Client Sample ID: GWVA2-2042

Lab Sample ID: 680-191010-2

Date Collected: 11/03/20 10:47

Matrix: Water

Date Received: 11/04/20 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			11/12/20 18:41	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/12/20 18:41	1
Toluene	ND		0.50	0.086	ug/L			11/12/20 18:41	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/12/20 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	100		70 - 130		11/12/20 18:41	1
4-Bromofluorobenzene	99		70 - 130		11/12/20 18:41	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.017	0.0024	ug/L		11/06/20 14:54	11/07/20 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	86		70 - 130	11/06/20 14:54	11/07/20 13:22	1

Client Sample ID: GWVA2-6042

Lab Sample ID: 680-191010-3

Date Collected: 11/03/20 10:47

Matrix: Water

Date Received: 11/04/20 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			11/12/20 19:06	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/12/20 19:06	1
Toluene	ND		0.50	0.086	ug/L			11/12/20 19:06	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/12/20 19:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	105		70 - 130		11/12/20 19:06	1
4-Bromofluorobenzene	100		70 - 130		11/12/20 19:06	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Client Sample ID: GWVA2-6042

Lab Sample ID: 680-191010-3

Date Collected: 11/03/20 10:47

Matrix: Water

Date Received: 11/04/20 09:30

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		11/10/20 14:20	11/11/20 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	83		70 - 130				11/10/20 14:20	11/11/20 03:36	1

Client Sample ID: TB2042-1

Lab Sample ID: 680-191010-4

Date Collected: 11/03/20 08:00

Matrix: Water

Date Received: 11/04/20 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			11/12/20 14:12	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/12/20 14:12	1
Toluene	ND		0.50	0.086	ug/L			11/12/20 14:12	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/12/20 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	103		70 - 130					11/12/20 14:12	1
4-Bromofluorobenzene	98		70 - 130					11/12/20 14:12	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		11/06/20 14:54	11/07/20 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	95		70 - 130				11/06/20 14:54	11/07/20 13:41	1

Client Sample ID: GWK016-2042

Lab Sample ID: 680-191041-1

Date Collected: 11/03/20 09:15

Matrix: Water

Date Received: 11/04/20 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*1	0.50	0.082	ug/L			11/13/20 14:28	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/13/20 14:28	1
Toluene	ND	*1	0.50	0.086	ug/L			11/13/20 14:28	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/13/20 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	101		70 - 130					11/13/20 14:28	1
4-Bromofluorobenzene	102		70 - 130					11/13/20 14:28	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		11/06/20 14:54	11/06/20 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	92		70 - 130				11/06/20 14:54	11/06/20 20:48	1

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Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Client Sample ID: GWK003-2042

Lab Sample ID: 680-191041-2

Date Collected: 11/03/20 10:00

Matrix: Water

Date Received: 11/04/20 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*1	0.50	0.082	ug/L			11/13/20 14:53	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/13/20 14:53	1
Toluene	ND	*1	0.50	0.086	ug/L			11/13/20 14:53	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/13/20 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	103		70 - 130		11/13/20 14:53	1
4-Bromofluorobenzene	93		70 - 130		11/13/20 14:53	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		11/06/20 14:54	11/06/20 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	103		70 - 130	11/06/20 14:54	11/06/20 20:57	1

Client Sample ID: TB2042-2

Lab Sample ID: 680-191041-3

Date Collected: 11/03/20 08:00

Matrix: Water

Date Received: 11/04/20 09:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	*1	0.50	0.082	ug/L			11/13/20 15:17	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/13/20 15:17	1
Toluene	ND	*1	0.50	0.086	ug/L			11/13/20 15:17	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/13/20 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	104		70 - 130		11/13/20 15:17	1
4-Bromofluorobenzene	103		70 - 130		11/13/20 15:17	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		11/06/20 14:54	11/06/20 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	118		70 - 130	11/06/20 14:54	11/06/20 21:07	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-643650/9

Matrix: Water

Analysis Batch: 643650

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			11/12/20 12:58	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/12/20 12:58	1
Toluene	ND		0.50	0.086	ug/L			11/12/20 12:58	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/12/20 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	99		70 - 130		11/12/20 12:58	1
4-Bromofluorobenzene	99		70 - 130		11/12/20 12:58	1

Lab Sample ID: LCS 680-643650/4

Matrix: Water

Analysis Batch: 643650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	18.8		ug/L		94	70 - 130
Ethylbenzene	20.0	18.7		ug/L		94	70 - 130
Toluene	20.0	19.3		ug/L		96	70 - 130
Xylenes, Total	40.0	38.5		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene	100		70 - 130

Lab Sample ID: LCSD 680-643650/5

Matrix: Water

Analysis Batch: 643650

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.6		ug/L		98	70 - 130	5	20
Ethylbenzene	20.0	18.1		ug/L		91	70 - 130	4	20
Toluene	20.0	21.1		ug/L		106	70 - 130	9	20
Xylenes, Total	40.0	36.5		ug/L		91	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene	112		70 - 130

Lab Sample ID: MB 680-643848/9

Matrix: Water

Analysis Batch: 643848

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			11/13/20 13:40	1
Ethylbenzene	ND		0.50	0.099	ug/L			11/13/20 13:40	1
Toluene	ND		0.50	0.086	ug/L			11/13/20 13:40	1
Xylenes, Total	ND		0.50	0.086	ug/L			11/13/20 13:40	1

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QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-643848/9

Matrix: Water

Analysis Batch: 643848

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB %Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	98	70 - 130		11/13/20 13:40	1
4-Bromofluorobenzene	102	70 - 130		11/13/20 13:40	1

Lab Sample ID: LCS 680-643848/4

Matrix: Water

Analysis Batch: 643848

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	18.0		ug/L		90	70 - 130
Ethylbenzene	20.0	18.3		ug/L		91	70 - 130
Toluene	20.0	18.3		ug/L		92	70 - 130
Xylenes, Total	40.0	35.8		ug/L		89	70 - 130

Surrogate	LCS LCS %Recovery Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	97	70 - 130
4-Bromofluorobenzene	97	70 - 130

Lab Sample ID: LCSD 680-643848/5

Matrix: Water

Analysis Batch: 643848

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	23.0	*1	ug/L		115	70 - 130	24	20
Ethylbenzene	20.0	21.7		ug/L		109	70 - 130	17	20
Toluene	20.0	22.7	*1	ug/L		114	70 - 130	21	20
Xylenes, Total	40.0	43.9		ug/L		110	70 - 130	20	20

Surrogate	LCSD LCSD %Recovery Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	101	70 - 130
4-Bromofluorobenzene	97	70 - 130

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-642718/3-A

Matrix: Water

Analysis Batch: 642766

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 642718

Analyte	MB MB Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND	0.018	0.0025	ug/L		11/06/20 14:54	11/06/20 17:21	1

Surrogate	MB MB %Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	98	70 - 130	11/06/20 14:54	11/06/20 17:21	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 680-642718/4-A

Matrix: Water

Analysis Batch: 642766

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 642718

			Spike	LCS	LCS				
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec.
Ethylene Dibromide			0.100	0.125		ug/L		125	Limits
									70 - 130
Surrogate	LCS	LCS							
	%Recovery	Qualifier	Limits						
Pentachloroethane	125		70 - 130						

Lab Sample ID: LCSD 680-642718/5-A

Matrix: Water

Analysis Batch: 642766

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 642718

Analysis Date: 01/27/09

							Top Date: 01/27/09				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide			0.100	0.120		ug/L		120	70 - 130	4	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
Pentachloroethane	114		70 - 130								

Lab Sample ID: 680-191041-2 MS

Matrix: Water

Analysis Batch: 642766

Client Sample ID: GWK003-2042

Prep Type: Total/NA

Prep Batch: 642718

Analysis Date: 04/27/00									
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	ND		0.0980	0.132	F1	ug/L		134	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
Pentachloroethane	124		70 - 130						

Lab Sample ID: MB 680-642723/1-A

Matrix: Water

Analysis Batch: 642787

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 642723

Analysis Date: 6/21/20							Rep Date: 6/21/20		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		11/06/20 14:54	11/07/20 11:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	102		70 - 130				11/06/20 14:54	11/07/20 11:43	1

Lab Sample ID: LCS 680-642723/2-A

Matrix: Water

Analysis Batch: 642787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 642723

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylene Dibromide			0.100	0.111		ug/L		111	70 - 130		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
Pentachloroethane	103		70 - 130								

Eurofins TestAmerica, Savannah

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 680-642723/3-A

Matrix: Water

Analysis Batch: 642787

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 642723

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	0.100	0.0941		ug/L		94	70 - 130	16	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Pentachloroethane	72		70 - 130						

Lab Sample ID: 680-191010-2 MS

Matrix: Water

Analysis Batch: 642787

Client Sample ID: GWVA2-2042

Prep Type: Total/NA

Prep Batch: 642723

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	ND		0.0983	0.0849		ug/L		86	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
Pentachloroethane	69	X	70 - 130								

Lab Sample ID: 680-191010-2 MSD

Matrix: Water

Analysis Batch: 642787

Client Sample ID: GWVA2-2042

Prep Type: Total/NA

Prep Batch: 642723

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	ND		0.0997	0.0933		ug/L		94	70 - 130	9	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Pentachloroethane	76		70 - 130								

Lab Sample ID: MB 680-643322/3-A

Matrix: Water

Analysis Batch: 643404

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 643322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		11/10/20 14:20	11/11/20 00:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
Pentachloroethane	79		70 - 130	11/10/20 14:20	11/11/20 00:08	1			

Lab Sample ID: LCS 680-643322/4-A

Matrix: Water

Analysis Batch: 643404

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 643322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	0.100	0.0946		ug/L		95	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Pentachloroethane	85		70 - 130						

Eurofins TestAmerica, Savannah

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 680-643322/5-A

Matrix: Water

Analysis Batch: 643404

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 643322

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	0.100	0.0933		ug/L	-	93	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Pentachloroethane	85		70 - 130						

Eurofins TestAmerica, Savannah

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

GC/MS VOA

Analysis Batch: 643650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-191010-1	GWK015-2042	Total/NA	Water	524.2	
680-191010-2	GWVA2-2042	Total/NA	Water	524.2	
680-191010-3	GWVA2-6042	Total/NA	Water	524.2	
680-191010-4	TB2042-1	Total/NA	Water	524.2	
MB 680-643650/9	Method Blank	Total/NA	Water	524.2	
LCS 680-643650/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-643650/5	Lab Control Sample Dup	Total/NA	Water	524.2	

Analysis Batch: 643848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-191041-1	GWK016-2042	Total/NA	Water	524.2	
680-191041-2	GWK003-2042	Total/NA	Water	524.2	
680-191041-3	TB2042-2	Total/NA	Water	524.2	
MB 680-643848/9	Method Blank	Total/NA	Water	524.2	
LCS 680-643848/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-643848/5	Lab Control Sample Dup	Total/NA	Water	524.2	

GC Semi VOA

Prep Batch: 642718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-191041-1	GWK016-2042	Total/NA	Water	504.1	
680-191041-2	GWK003-2042	Total/NA	Water	504.1	
680-191041-3	TB2042-2	Total/NA	Water	504.1	
MB 680-642718/3-A	Method Blank	Total/NA	Water	504.1	
LCS 680-642718/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-642718/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	
680-191041-2 MS	GWK003-2042	Total/NA	Water	504.1	

Prep Batch: 642723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-191010-1	GWK015-2042	Total/NA	Water	504.1	
680-191010-2	GWVA2-2042	Total/NA	Water	504.1	
680-191010-4	TB2042-1	Total/NA	Water	504.1	
MB 680-642723/1-A	Method Blank	Total/NA	Water	504.1	
LCS 680-642723/2-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-642723/3-A	Lab Control Sample Dup	Total/NA	Water	504.1	
680-191010-2 MS	GWVA2-2042	Total/NA	Water	504.1	
680-191010-2 MSD	GWVA2-2042	Total/NA	Water	504.1	

Analysis Batch: 642766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-191041-1	GWK016-2042	Total/NA	Water	504.1	642718
680-191041-2	GWK003-2042	Total/NA	Water	504.1	642718
680-191041-3	TB2042-2	Total/NA	Water	504.1	642718
MB 680-642718/3-A	Method Blank	Total/NA	Water	504.1	642718
LCS 680-642718/4-A	Lab Control Sample	Total/NA	Water	504.1	642718
LCSD 680-642718/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	642718
680-191041-2 MS	GWK003-2042	Total/NA	Water	504.1	642718

Eurofins TestAmerica, Savannah

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

GC Semi VOA

Analysis Batch: 642787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-191010-1	GWK015-2042	Total/NA	Water	504.1	642723
680-191010-2	GWVA2-2042	Total/NA	Water	504.1	642723
680-191010-4	TB2042-1	Total/NA	Water	504.1	642723
MB 680-642723/1-A	Method Blank	Total/NA	Water	504.1	642723
LCS 680-642723/2-A	Lab Control Sample	Total/NA	Water	504.1	642723
LCSD 680-642723/3-A	Lab Control Sample Dup	Total/NA	Water	504.1	642723
680-191010-2 MS	GWVA2-2042	Total/NA	Water	504.1	642723
680-191010-2 MSD	GWVA2-2042	Total/NA	Water	504.1	642723

Prep Batch: 643322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-191010-3	GWVA2-6042	Total/NA	Water	504.1	
MB 680-643322/3-A	Method Blank	Total/NA	Water	504.1	
LCS 680-643322/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-643322/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	

Analysis Batch: 643404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-191010-3	GWVA2-6042	Total/NA	Water	504.1	643322
MB 680-643322/3-A	Method Blank	Total/NA	Water	504.1	643322
LCS 680-643322/4-A	Lab Control Sample	Total/NA	Water	504.1	643322
LCSD 680-643322/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	643322

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Client Sample ID: GWK015-2042

Lab Sample ID: 680-191010-1

Date Collected: 11/03/20 09:30

Matrix: Water

Date Received: 11/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	643650	11/12/20 18:17	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			35 mL	2 mL	642723	11/06/20 14:54	GEM	TAL SAV
Total/NA	Analysis	504.1		1			642787	11/07/20 13:12	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWVA2-2042

Lab Sample ID: 680-191010-2

Date Collected: 11/03/20 10:47

Matrix: Water

Date Received: 11/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	643650	11/12/20 18:41	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			36.3 mL	2 mL	642723	11/06/20 14:54	GEM	TAL SAV
Total/NA	Analysis	504.1		1			642787	11/07/20 13:22	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWVA2-6042

Lab Sample ID: 680-191010-3

Date Collected: 11/03/20 10:47

Matrix: Water

Date Received: 11/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	643650	11/12/20 19:06	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			35.3 mL	2 mL	643322	11/10/20 14:20	DC	TAL SAV
Total/NA	Analysis	504.1		1			643404	11/11/20 03:36	DC	TAL SAV
Instrument ID: CSGX										

Client Sample ID: TB2042-1

Lab Sample ID: 680-191010-4

Date Collected: 11/03/20 08:00

Matrix: Water

Date Received: 11/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	643650	11/12/20 14:12	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			34.9 mL	2 mL	642723	11/06/20 14:54	GEM	TAL SAV
Total/NA	Analysis	504.1		1			642787	11/07/20 13:41	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWK016-2042

Lab Sample ID: 680-191041-1

Date Collected: 11/03/20 09:15

Matrix: Water

Date Received: 11/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	643848	11/13/20 14:28	Y1S	TAL SAV
Instrument ID: CMSAG										

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Client Sample ID: GWK016-2042

Lab Sample ID: 680-191041-1

Date Collected: 11/03/20 09:15

Matrix: Water

Date Received: 11/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	504.1			34.7 mL	2 mL	642718	11/06/20 14:54	GEM	TAL SAV
Total/NA	Analysis	504.1		1			642766	11/06/20 20:48	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWK003-2042

Lab Sample ID: 680-191041-2

Date Collected: 11/03/20 10:00

Matrix: Water

Date Received: 11/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	643848	11/13/20 14:53	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			34.9 mL	2 mL	642718	11/06/20 14:54	GEM	TAL SAV
Total/NA	Analysis	504.1		1			642766	11/06/20 20:57	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: TB2042-2

Lab Sample ID: 680-191041-3

Date Collected: 11/03/20 08:00

Matrix: Water

Date Received: 11/04/20 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	643848	11/13/20 15:17	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			35.2 mL	2 mL	642718	11/06/20 14:54	GEM	TAL SAV
Total/NA	Analysis	504.1		1			642766	11/06/20 21:07	JCK	TAL SAV
Instrument ID: CSGX										

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	GA00006	06-30-21

1

2

3

4

5

6

7

8

9

10

11

12

Eurofins TestAmerica, Savannah

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-191010-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL SAV
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	TAL SAV
504.1	Microextraction	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah

EA		CHAIN-OF-CUSTODY RECORD				COC NUMBER	
205 Schilling Circle Suite 400 Hunt Valley MD Tel No. (410) 594-7000 Fax No. (410) 771-1625		PROJECT NAME: Kirtland AFB Bulk Fuels Facility				COC-K015-2042	
PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA				QUARTER: 4 - November	
LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858					
ANALYSIS REQUIRED (Specify number of bottles)		COMMENTS					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	(4500 S2CF) Sulfide	(4500NH3B/C) Ammonia Nitrogen	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(353.2) Nitrate-Nitrite
1	GWK015-2042	11/3/2020	0930	(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(EPA Method 504.1) EDB
2				(EPA Method 524.2) BTEXN	(EPA Method 524.2) BTEX	(EPA Method 524.2) VOCs	Total Number of Bottles
3							
4							
5							
6							



680-191010 Chain of Custody

TB2042-1

SAMPLER(S):		COURIER AND SHIPPING NUMBER:	
G. Bracht		FedEx 1516 9325 2320	
RELINQUISHED BY:	RECEIVED BY:	DATE	TIME
G. Bracht	G. Bracht	11/3/2020	1400
Printed Name and Signature:	Printed Name and Signature:		
G. Bracht	G. Bracht		
Printed Name and Signature:	Printed Name and Signature:		

2.3 (CF) 2.6%

EA				CHAIN-OF-CUSTODY RECORD				COC NUMBER	
225 Schilling Circle Suite 405 Hunt Valley MD Tel No. (410) 584-7000 Fax No. (410) 771-1628				PROJECT NAME: Kirtland AFB Bulk Fuels Facility				COC-VA2-2042	
PROJECT NUMBER: 62735DM02				LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111				FAX AND MAIL REPORTS/EDD TO: Tara Lamond: t.lamond@east.com EA Ananda Smith: asmith@east.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA				QUARTER: 4 - November	
LAB PO NUMBER: 16065				LAB CONTACT: 1 (912) 354-7858					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)				COMMENTS	
1	GWVA2-2042	11/3/2020	1047	(EPA Method 504.1) EDB	3	(353.2) Nitrate-Nitrite	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(4500NH3B/C) Ammonia Nitrogen	(4500 S2CF) Sulfide
2	GWVA2-6042	11/3/2020	1047	(EPA Method 524.2) BTEX	3	(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	
3				(EPA Method 524.2) VOCs	3				
4				Total Number of Bottles	6				
5									
6									

SAMPLER(S): G. Bracht		COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2320		TB2042-1	
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
Printed Name and Signature: G. Bracht	11/3/2020	1400	Printed Name and Signature: G. Bracht	11-04-20	0930
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

EA		CHAIN-OF-CUSTODY RECORD				COC NUMBER		
225 Schilling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-7625		PROJECT NAME: Kirtland AFB Bulk Fuels Facility				COC-TB2042-1		
PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020		
PROJECT SITE AND PHASE: ST106/SS111		FAX AND MAIL REPORTS/IEDD TO: Tara Lamond, EA Ananda Smith, EA pmoss@east.com, EA				QUARTER: 4 - November		
LAB PO NUMBER: 18929		LAB CONTACT: 1 (912) 354-7858						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)				COMMENTS
1	TB2042-1	11/03/2020	0800	(4500 S2CF) Sulfide	(4500NH3B/C) Ammonia Nitrogen	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(353.2) Nitrate-Nitrite	
2				(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As, Pb, Cd, K, Na, Mg)	(EPA Method 504.1) EDB	
3				(EPA Method 524.2) BTEX	(EPA Method 524.2) BTEX	(EPA Method 524.2) VOCs	Total Number of Bottles	
4								
5								
6								
Associated with: GWK015-2042 GWV02-2042 GWV02-6042								
SAMPLER(S): G. Bracht, J. Hamm		COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2320		RECEIVED BY:		DATE		TIME
RELINQUISHED BY:		DATE		TIME		DATE		TIME
Printed Name and Signature: Gunny Bracht		11/3/2020		1400				
Printed Name and Signature:								
Printed Name and Signature:								
Printed Name and Signature:								

EA		CHAIN-OF-CUSTODY RECORD		COC NUMBER	
225 Schilling Circle Suite 400 Hunt Valley Rd Tel No (410) 594-7000 Fax No (410) 771-1625		PROJECT NUMBER: 62735DM02		COC-K016-2042	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com Ananda Smith: asmith@eaest.com Pam Moss: pmoss@eaest.com		QUARTER: 4 - November	
LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858			
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)	
1	GWK016-2042	11/3/2020	0915	(4500 S2CF) Sulfide (4500NH3B/C) Ammonia Nitrogen (2320B) Alkalinity (Total, Carbonate, and Bicarbonate) (353.2) Nitrate-Nitrite (300.0A) Chloride, bromide, sulfate (6010C) Dissolved Fe, Mn (6020A/6010C) Total (As,Pb,Ca,K,Na,Mg) (EPA Method 504.1) EDB (EPA Method 524.2) BTEXN (EPA Method 524.2) BTEX (EPA Method 524.2) VOCs Total Number of Bottles	
2					
3					
4					
5					
6					
 680-191041 Chain of Custody					
TB2042- 2					
SAMPLER(S): G. Bracht		COURIER AND SHIPPING NUMBER: FedEx 510 9325 2331		RECEIVED BY:	
Printed Name and Signature:		DATE	TIME	DATE	
Ginny Bracht		11/3/2020	1400	11-4-20 930	
Printed Name and Signature:		Printed Name and Signature:			
Printed Name and Signature:		Printed Name and Signature:			

EA				CHAIN-OF-CUSTODY RECORD				COC NUMBER	
225 Schilling Circle Suite 400 North Valley Rd Tel No. (410) 564-7000 Fax No. (410) 771-1625				PROJECT NUMBER: 62735DM02				COC-TB2042-2	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility				LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111				FAX AND MAIL REPORTS/EDD TO: Pam Moss amoss@east.com EA				QUARTER: 4 - November	
LAB PO NUMBER: 18929				LAB CONTACT: 1 (912) 354-7858					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)				COMMENTS	
1	TB2042-2	11/03/2020	0800	(EPA Method 504.1) EDB	(353.2) Nitrate-Nitrite	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(4500NH3B/C) Ammonia Nitrogen	(4500 S2CF) Sulfide	
2				(EPA Method 524.2) BTEX	(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As, Pb, Ca, K, Na, Mg)		
3				(EPA Method 524.2) BTEX					
4				(EPA Method 524.2) VOCs					
5				Total Number of Bottles					
6									

Associated with:
 GWK016-2042
 GWK003-2042

SAMPLER(S): J. Hamm, G. Bracht		COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2331	
RELINQUISHED BY:	DATE	TIME	DATE
Printed Name and Signature: G. Bracht	11/3/2020	1400	11-4-20
Printed Name and Signature:			930
Printed Name and Signature:			
Printed Name and Signature:			

EA		CHAIN-OF-CUSTODY RECORD				COC NUMBER	
225 Siding Circle Suite 400 Hunt Valley MD Tel No: (410) 984-7000 Fax No: (410) 771-1025		PROJECT NAME: Kirtland AFB Bulk Fuels Facility				COC-K003-2042	
PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@eaest.com EA Amanda Smith: asmth@eaest.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@eaest.com EA				QUARTER: 4 - November	
LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)			
1	GWK003-2042	11/3/2020	1000	(4500 S2CF) Sulfide			
2				(4500 NH3B/C) Ammonia Nitrogen			
3				(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)			
4				(353.2) Nitrate-Nitrite			
5				(300.0A) Chloride, bromide, sulfate			
6				(6010C) Dissolved Fe, Mn			
				(6020A/6010C) Total (As, Pb, Ca, K, Na, Mg)			
				(EPA Method 504.1) EDB			
				(EPA Method 524.2) BTEXN			
				(EPA Method 524.2) BTEX			
				(EPA Method 524.2) VOCs			
				Total Number of Bottles	6		
COMMENTS							
TB2042-2							
SAMPLER(S): G. Brackel		RELINQUISHED BY:		COURIER AND SHIPPING NUMBER: FedEx 1516 9325 2331			
Printed Name and Signature: Gunn Brackel		DATE: 11/3/2020		TIME: 1400		RECEIVED BY:	
Printed Name and Signature: Gunn Brackel		DATE: 11/3/2020		TIME: 1400		RECEIVED BY:	
Printed Name and Signature: Gunn Brackel		DATE: 11/3/2020		TIME: 1400		RECEIVED BY:	
Printed Name and Signature: Gunn Brackel		DATE: 11/3/2020		TIME: 1400		RECEIVED BY:	

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 680-191010-1

Login Number: 191010**List Source: Eurofins TestAmerica, Savannah****List Number: 1****Creator: Banda, Christy S**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 680-191010-1

Login Number: 191041**List Source: Eurofins TestAmerica, Savannah****List Number: 1****Creator: Sims, Robert D**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

Laboratory Job ID: 680-192133-1

Client Project/Site: Production/Irrigation Well, Kirtland AFB

For:

EA Engineering, Science, and Technology
7995 E. Prentice Ave, Suite 206E
Greenwood Village, Colorado 80111

Attn: Pamela J Moss

Authorized for release by:
12/11/2020 11:16:51 AM

Dylan Bieniulis, Project Manager I
(303)736-0138
Dylan.Bieniulis@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins TestAmerica, Savannah

Sample Summary

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
680-192133-1	GWK003-2043	Water	12/01/20 11:05	12/02/20 10:30	
680-192133-2	GWVA2-2043	Water	12/01/20 12:00	12/02/20 10:30	
680-192133-3	TB2043-02	Water	12/01/20 08:30	12/02/20 10:30	
680-192135-1	TB2043-01	Water	12/01/20 08:30	12/02/20 10:30	
680-192135-2	GWK016-2043	Water	12/01/20 09:33	12/02/20 10:30	
680-192135-3	GWK015-2043	Water	12/01/20 10:10	12/02/20 10:30	

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Eurofins TestAmerica, Savannah

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Job ID: 680-192133-1

Laboratory: Eurofins TestAmerica, Savannah

Narrative

CASE NARRATIVE

Client: EA Engineering, Science, and Technology

Project: Production/Irrigation Well, Kirtland AFB

Report Number: 680-192133-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/02/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.1 and 5.7 C.

DRINKING WATER VOLATILES (GC-MS)

Samples GWK003-2043 (680-192133-1), TB2043-01 (680-192135-1), GWVA2-2043 (680-192133-2), GWK016-2043 (680-192135-2), TB2043-02 (680-192133-3) and GWK015-2043 (680-192135-3) were analyzed for drinking water volatiles (GC-MS) in accordance with EPA Method 524.2. The samples were analyzed on 12/07/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

EDB

Samples GWK003-2043 (680-192133-1), TB2043-01 (680-192135-1), GWVA2-2043 (680-192133-2), GWK016-2043 (680-192135-2), TB2043-02 (680-192133-3) and GWK015-2043 (680-192135-3) were analyzed for EDB in accordance with EPA Method 504.1. The samples were prepared on 12/07/2020 and 12/09/2020 and analyzed on 12/08/2020 and 12/09/2020.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job Narrative
680-192133-1

Comments

No additional comments.

Receipt

The samples were received on 12/2/2020 10:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.1° C and 5.7° C.

Receipt Exceptions

Case Narrative

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Job ID: 680-192133-1 (Continued)

Laboratory: Eurofins TestAmerica, Savannah (Continued)

Samples logged under laboratory login 680-192133-1 and 680-192135-1 were combined into a single laboratory sample delivery group (SDG) for reporting as the samples are from the same client project site and were received at the laboratory on the same date.

GC/MS VOA

Method 524.2: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-647298.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Client Sample ID: GWK003-2043

Lab Sample ID: 680-192133-1

Date Collected: 12/01/20 11:05

Matrix: Water

Date Received: 12/02/20 10:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			12/07/20 19:34	1
Ethylbenzene	ND		0.50	0.099	ug/L			12/07/20 19:34	1
Toluene	ND		0.50	0.086	ug/L			12/07/20 19:34	1
Xylenes, Total	ND		0.50	0.086	ug/L			12/07/20 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	102		70 - 130		12/07/20 19:34	1
4-Bromofluorobenzene	90		70 - 130		12/07/20 19:34	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0024	ug/L		12/07/20 14:55	12/08/20 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	94		70 - 130	12/07/20 14:55	12/08/20 00:56	1

Client Sample ID: GWVA2-2043

Lab Sample ID: 680-192133-2

Date Collected: 12/01/20 12:00

Matrix: Water

Date Received: 12/02/20 10:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			12/07/20 19:58	1
Ethylbenzene	ND		0.50	0.099	ug/L			12/07/20 19:58	1
Toluene	ND		0.50	0.086	ug/L			12/07/20 19:58	1
Xylenes, Total	ND		0.50	0.086	ug/L			12/07/20 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	103		70 - 130		12/07/20 19:58	1
4-Bromofluorobenzene	95		70 - 130		12/07/20 19:58	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0024	ug/L		12/07/20 14:55	12/08/20 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	90		70 - 130	12/07/20 14:55	12/08/20 00:27	1

Client Sample ID: TB2043-02

Lab Sample ID: 680-192133-3

Date Collected: 12/01/20 08:30

Matrix: Water

Date Received: 12/02/20 10:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			12/07/20 14:41	1
Ethylbenzene	ND		0.50	0.099	ug/L			12/07/20 14:41	1
Toluene	ND		0.50	0.086	ug/L			12/07/20 14:41	1
Xylenes, Total	ND		0.50	0.086	ug/L			12/07/20 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	105		70 - 130		12/07/20 14:41	1
4-Bromofluorobenzene	92		70 - 130		12/07/20 14:41	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Client Sample ID: TB2043-02

Lab Sample ID: 680-192133-3

Date Collected: 12/01/20 08:30

Matrix: Water

Date Received: 12/02/20 10:30

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		12/07/20 14:55	12/08/20 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	93		70 - 130				12/07/20 14:55	12/08/20 01:06	1

Client Sample ID: TB2043-01

Lab Sample ID: 680-192135-1

Date Collected: 12/01/20 08:30

Matrix: Water

Date Received: 12/02/20 10:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			12/07/20 14:16	1
Ethylbenzene	ND		0.50	0.099	ug/L			12/07/20 14:16	1
Toluene	ND		0.50	0.086	ug/L			12/07/20 14:16	1
Xylenes, Total	ND		0.50	0.086	ug/L			12/07/20 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	98		70 - 130					12/07/20 14:16	1
4-Bromofluorobenzene	94		70 - 130					12/07/20 14:16	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		12/09/20 13:20	12/09/20 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	90		70 - 130				12/09/20 13:20	12/09/20 18:07	1

Client Sample ID: GWK016-2043

Lab Sample ID: 680-192135-2

Date Collected: 12/01/20 09:33

Matrix: Water

Date Received: 12/02/20 10:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			12/07/20 20:22	1
Ethylbenzene	ND		0.50	0.099	ug/L			12/07/20 20:22	1
Toluene	ND		0.50	0.086	ug/L			12/07/20 20:22	1
Xylenes, Total	ND		0.50	0.086	ug/L			12/07/20 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	94		70 - 130					12/07/20 20:22	1
4-Bromofluorobenzene	101		70 - 130					12/07/20 20:22	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		12/09/20 13:20	12/09/20 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	88		70 - 130				12/09/20 13:20	12/09/20 18:17	1

Eurofins TestAmerica, Savannah

Client Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Client Sample ID: GWK015-2043

Lab Sample ID: 680-192135-3

Date Collected: 12/01/20 10:10

Matrix: Water

Date Received: 12/02/20 10:30

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			12/07/20 20:47	1
Ethylbenzene	ND		0.50	0.099	ug/L			12/07/20 20:47	1
Toluene	ND		0.50	0.086	ug/L			12/07/20 20:47	1
Xylenes, Total	ND		0.50	0.086	ug/L			12/07/20 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	95		70 - 130		12/07/20 20:47	1
4-Bromofluorobenzene	93		70 - 130		12/07/20 20:47	1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		12/09/20 13:20	12/09/20 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	91		70 - 130	12/09/20 13:20	12/09/20 18:27	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-647298/9

Matrix: Water

Analysis Batch: 647298

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.082	ug/L			12/07/20 13:03	1
Ethylbenzene	ND		0.50	0.099	ug/L			12/07/20 13:03	1
Toluene	ND		0.50	0.086	ug/L			12/07/20 13:03	1
Xylenes, Total	ND		0.50	0.086	ug/L			12/07/20 13:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4 (Surr)	104		70 - 130		12/07/20 13:03	1
4-Bromofluorobenzene	99		70 - 130		12/07/20 13:03	1

Lab Sample ID: LCS 680-647298/4

Matrix: Water

Analysis Batch: 647298

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	22.1		ug/L		110	70 - 130
Ethylbenzene	20.0	22.1		ug/L		110	70 - 130
Toluene	20.0	22.4		ug/L		112	70 - 130
Xylenes, Total	40.0	41.6		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene	103		70 - 130

Lab Sample ID: LCSD 680-647298/5

Matrix: Water

Analysis Batch: 647298

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.6		ug/L		103	70 - 130	7	20
Ethylbenzene	20.0	21.9		ug/L		110	70 - 130	1	20
Toluene	20.0	21.1		ug/L		106	70 - 130	6	20
Xylenes, Total	40.0	43.2		ug/L		108	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichlorobenzene-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene	107		70 - 130

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 680-647399/3-A

Matrix: Water

Analysis Batch: 647450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		12/07/20 14:55	12/07/20 23:27	1

Eurofins TestAmerica, Savannah

QC Sample Results

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 680-647399/3-A

Matrix: Water

Analysis Batch: 647450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647399

Surrogate	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Pentachloroethane	92		70 - 130	12/07/20 14:55	12/07/20 23:27	1

Lab Sample ID: LCS 680-647399/4-A

Matrix: Water

Analysis Batch: 647450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 647399

Analyte	LCS LCS %Recovery	Qualifier	Limits	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide				0.100	0.106		ug/L		106	70 - 130
Surrogate	LCS LCS %Recovery	Qualifier	Limits							
Pentachloroethane	86		70 - 130							

Lab Sample ID: LCSD 680-647399/5-A

Matrix: Water

Analysis Batch: 647450

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 647399

Analyte	LCSD LCSD %Recovery	Qualifier	Limits	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide				0.100	0.104		ug/L		104	70 - 130	2	30
Surrogate	LCSD LCSD %Recovery	Qualifier	Limits									
Pentachloroethane	83		70 - 130									

Lab Sample ID: 680-192133-2 MS

Matrix: Water

Analysis Batch: 647450

Client Sample ID: GWVA2-2043

Prep Type: Total/NA

Prep Batch: 647399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide	ND		0.100	0.104		ug/L		104	70 - 130		
Surrogate	MS MS %Recovery	Qualifier	Limits								
Pentachloroethane	85		70 - 130								

Lab Sample ID: 680-192133-2 MSD

Matrix: Water

Analysis Batch: 647450

Client Sample ID: GWVA2-2043

Prep Type: Total/NA

Prep Batch: 647399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ethylene Dibromide	ND		0.0983	0.103		ug/L		105	70 - 130	1	30
Surrogate	MSD MSD %Recovery	Qualifier	Limits								
Pentachloroethane	89		70 - 130								

Eurofins TestAmerica, Savannah

QC Sample Results

Client: EA Engineering, Science, and Technology
 Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 680-647754/3-A

Matrix: Water

Analysis Batch: 647826

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.018	0.0025	ug/L		12/09/20 13:20	12/09/20 16:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Pentachloroethane	94		70 - 130				12/09/20 13:20	12/09/20 16:17	1

Lab Sample ID: LCS 680-647754/4-A

Matrix: Water

Analysis Batch: 647826

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 647754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	0.100	0.109		ug/L		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Pentachloroethane	94		70 - 130				

Lab Sample ID: LCSD 680-647754/5-A

Matrix: Water

Analysis Batch: 647826

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 647754

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	0.100	0.108		ug/L		108	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Pentachloroethane	90		70 - 130						

Eurofins TestAmerica, Savannah

QC Association Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

GC/MS VOA

Analysis Batch: 647298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-192133-1	GWK003-2043	Total/NA	Water	524.2	
680-192133-2	GWVA2-2043	Total/NA	Water	524.2	
680-192133-3	TB2043-02	Total/NA	Water	524.2	
680-192135-1	TB2043-01	Total/NA	Water	524.2	
680-192135-2	GWK016-2043	Total/NA	Water	524.2	
680-192135-3	GWK015-2043	Total/NA	Water	524.2	
MB 680-647298/9	Method Blank	Total/NA	Water	524.2	
LCS 680-647298/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 680-647298/5	Lab Control Sample Dup	Total/NA	Water	524.2	

GC Semi VOA

Prep Batch: 647399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-192133-1	GWK003-2043	Total/NA	Water	504.1	
680-192133-2	GWVA2-2043	Total/NA	Water	504.1	
680-192133-3	TB2043-02	Total/NA	Water	504.1	
MB 680-647399/3-A	Method Blank	Total/NA	Water	504.1	
LCS 680-647399/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-647399/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	
680-192133-2 MS	GWVA2-2043	Total/NA	Water	504.1	
680-192133-2 MSD	GWVA2-2043	Total/NA	Water	504.1	

Analysis Batch: 647450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-192133-1	GWK003-2043	Total/NA	Water	504.1	647399
680-192133-2	GWVA2-2043	Total/NA	Water	504.1	647399
680-192133-3	TB2043-02	Total/NA	Water	504.1	647399
MB 680-647399/3-A	Method Blank	Total/NA	Water	504.1	647399
LCS 680-647399/4-A	Lab Control Sample	Total/NA	Water	504.1	647399
LCSD 680-647399/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	647399
680-192133-2 MS	GWVA2-2043	Total/NA	Water	504.1	647399
680-192133-2 MSD	GWVA2-2043	Total/NA	Water	504.1	647399

Prep Batch: 647754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-192135-1	TB2043-01	Total/NA	Water	504.1	
680-192135-2	GWK016-2043	Total/NA	Water	504.1	
680-192135-3	GWK015-2043	Total/NA	Water	504.1	
MB 680-647754/3-A	Method Blank	Total/NA	Water	504.1	
LCS 680-647754/4-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 680-647754/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	

Analysis Batch: 647826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-192135-1	TB2043-01	Total/NA	Water	504.1	647754
680-192135-2	GWK016-2043	Total/NA	Water	504.1	647754
680-192135-3	GWK015-2043	Total/NA	Water	504.1	647754
MB 680-647754/3-A	Method Blank	Total/NA	Water	504.1	647754
LCS 680-647754/4-A	Lab Control Sample	Total/NA	Water	504.1	647754
LCSD 680-647754/5-A	Lab Control Sample Dup	Total/NA	Water	504.1	647754

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Client Sample ID: GWK003-2043

Lab Sample ID: 680-192133-1

Date Collected: 12/01/20 11:05

Matrix: Water

Date Received: 12/02/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	647298	12/07/20 19:34	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			35.9 mL	2 mL	647399	12/07/20 14:55	DC	TAL SAV
Total/NA	Analysis	504.1		1			647450	12/08/20 00:56	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWVA2-2043

Lab Sample ID: 680-192133-2

Date Collected: 12/01/20 12:00

Matrix: Water

Date Received: 12/02/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	647298	12/07/20 19:58	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			35.8 mL	2 mL	647399	12/07/20 14:55	DC	TAL SAV
Total/NA	Analysis	504.1		1			647450	12/08/20 00:27	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: TB2043-02

Lab Sample ID: 680-192133-3

Date Collected: 12/01/20 08:30

Matrix: Water

Date Received: 12/02/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	647298	12/07/20 14:41	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			35.1 mL	2 mL	647399	12/07/20 14:55	DC	TAL SAV
Total/NA	Analysis	504.1		1			647450	12/08/20 01:06	JCK	TAL SAV
Instrument ID: CSGX										

Client Sample ID: TB2043-01

Lab Sample ID: 680-192135-1

Date Collected: 12/01/20 08:30

Matrix: Water

Date Received: 12/02/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	647298	12/07/20 14:16	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			34.9 mL	2 mL	647754	12/09/20 13:20	DC	TAL SAV
Total/NA	Analysis	504.1		1			647826	12/09/20 18:07	DC	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWK016-2043

Lab Sample ID: 680-192135-2

Date Collected: 12/01/20 09:33

Matrix: Water

Date Received: 12/02/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	647298	12/07/20 20:22	Y1S	TAL SAV
Instrument ID: CMSAG										

Eurofins TestAmerica, Savannah

Lab Chronicle

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Client Sample ID: GWK016-2043

Lab Sample ID: 680-192135-2

Date Collected: 12/01/20 09:33

Matrix: Water

Date Received: 12/02/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	504.1			35 mL	2 mL	647754	12/09/20 13:20	DC	TAL SAV
Total/NA	Analysis	504.1		1			647826	12/09/20 18:17	DC	TAL SAV
Instrument ID: CSGX										

Client Sample ID: GWK015-2043

Lab Sample ID: 680-192135-3

Date Collected: 12/01/20 10:10

Matrix: Water

Date Received: 12/02/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	5 mL	5 mL	647298	12/07/20 20:47	Y1S	TAL SAV
Instrument ID: CMSAG										
Total/NA	Prep	504.1			35.2 mL	2 mL	647754	12/09/20 13:20	DC	TAL SAV
Total/NA	Analysis	504.1		1			647826	12/09/20 18:27	DC	TAL SAV
Instrument ID: CSGX										

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah

Accreditation/Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Laboratory: Eurofins TestAmerica, Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	GA00006	06-30-21

1

2

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Eurofins TestAmerica, Savannah

Method Summary

Client: EA Engineering, Science, and Technology
Project/Site: Production/Irrigation Well, Kirtland AFB

Job ID: 680-192133-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL SAV
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	TAL SAV
504.1	Microextraction	EPA-DW	TAL SAV

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL SAV = Eurofins TestAmerica, Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins TestAmerica, Savannah

EA		225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-1625		CHAIN-OF-CUSTODY RECORD		COC NUMBER COC-K003-2043	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@east.com EA Amanda Smith: asmith@east.com EA Pam Moss: pmoss@east.com EA	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858		YEAR: 2020 QUARTER: 4 - December	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)			
1	GWK003-2043	12/01/2020	7:45 AM	(4500 S2CF) Sulfide	(4500NH3B/C) Ammonia Nitrogen	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(353.2) Nitrate-Nitrite
2				(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As, Pb, Ca, K, Na, Mg)	(EPA Method 504.1) EDB
3				(EPA Method 524.2) BTEXN	(EPA Method 524.2) BTEX	(EPA Method 524.2) VOCs	Total Number of Bottles
4							
5							
6	AP						
				COMMENTS			
				 880-192133 Chain of Custody			
SAMPLER(S): A. Rosebrough, G. Beguy				COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8079 TB2043-02			
RELINQUISHED BY:				RECEIVED BY:			
Printed Name and Signature: Amy Rosebrough				Printed Name and Signature: G. Beguy			
DATE: 12/01/2020				DATE: 12-02-20			
TIME: 1430				TIME: 1030			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			

EA		CHAIN-OF-CUSTODY RECORD				COC NUMBER	
225 Schilling Circle Suite 400 Hunt Valley MD Tel No (410) 584-7000 Fax No (410) 771-1025		PROJECT NAME: Kirtland AFB Bulk Fuels Facility				COC-VA2-2043	
PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020	
PROJECT SITE AND PHASE: ST106/SS111		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@east.com EA Amanda Smith: asmith@east.com EA FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA				QUARTER: 4 - December	
LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858					
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)			
1	GWVA2-2043	12/01/2020	1200	(4500 S2CF) Sulfide	(4500NH3B/C) Ammonia Nitrogen	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(353.2) Nitrate-Nitrite
2				(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	(EPA Method 504.1) EDB
3				(EPA Method 524.2) BTEXN	(EPA Method 524.2) BTEX	(EPA Method 524.2) VOCs	Total Number of Bottles
4							
5							
6							
COMMENTS							
1 2 3 4 5 6 7 8 9 10 11 12							
SAMPLER(S): A. Rosborough G. Beauge		COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8079		TB2043-03mk			
RELINQUISHED BY:		RECEIVED BY:		DATE TIME			
Printed Name and Signature: Amy Rosborough		Printed Name and Signature: O. Beauge		DATE TIME 12/01/2020 1430			
Printed Name and Signature:		Printed Name and Signature:		DATE TIME 12-02-20 1030			
Printed Name and Signature:		Printed Name and Signature:		DATE TIME			

EA		CHAIN-OF-CUSTODY RECORD				COC NUMBER	
225 Schling Circle Suite 400 Hunt Valley, MD Tel No. (410) 584-7000 Fax No. (410) 771-1625		PROJECT NAME: Kirtland AFB Bulk Fuels Facility				COC-TB2043-02	
PROJECT NUMBER: 62735DM02		LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020 QUARTER: 4 - December	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18929				LAB CONTACT: 1 (912) 354-7858	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)			COMMENTS
1	TB2043-02	12-01-2020	0830	4	2	2	
2							
3							
4							
5							
6							
Associated with: GWK 003 - 2043 GWVA 2 - 2043							
SAMPLER(S): <i>G. Begaye</i>		RELINQUISHED BY:		COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8079		RECEIVED BY:	
Printed Name and Signature: <i>G. Begaye</i>		DATE: 12-01-2020 TIME: 1430		DATE: 12-02-20 TIME: 1030		Printed Name and Signature: <i>C. Boudier</i>	
Printed Name and Signature:		DATE:		DATE:		Printed Name and Signature:	
Printed Name and Signature:		DATE:		DATE:		Printed Name and Signature:	

EA		CHAIN-OF-CUSTODY RECORD				COC NUMBER	
225 Siding Circle, Suite 400 Kirtland AFB Bulk Fuels Facility Tel No. (410) 584-7000 Fax No. (410) 771-1625		PROJECT NUMBER: 62735DM02 LABORATORY NAME AND CONTACT: Eurofins TestAmerica Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				COC-TB2043. 01 YEAR: 2020 QUARTER: 4 - December	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 18629				LAB CONTACT: 1 (912) 354-7858	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)			
1	TB2043- 01	12-01-2020	0830	4	2	2	
2							
3							
4							
5							
6							
				COMMENTS: (4500 S2CF) Sulfide (4500NH3B/C) Ammonia Nitrogen (2320B) Alkalinity (Total, Carbonate, and Bicarbonate) (353.2) Nitrate-Nitrite (300.0A) Chloride, bromide, sulfate (6010C) Dissolved Fe, Mn (6020A/6010C) Total (As, Pb, Cd, K, Na, Mg) (EPA Method 504.1) EDB (EPA Method 524.2) BTEXN (EPA Method 524.2) BTEX (EPA Method 524.2) VOCs Total Number of Bottles			
				Associated with: GWK015 - 2043 GWK016 - 2043 5.9/5.7			
SAMPLER(S): G. Begay Printed Name and Signature: Gabeon Begay Printed Name and Signature:				COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8068 RECEIVED BY:			
DATE: 12-01-2020 TIME: 1430				DATE: 12-2-20 TIME: 1030			
Printed Name and Signature:				Printed Name and Signature:			
Printed Name and Signature:				Printed Name and Signature:			



EA		CHAIN-OF-CUSTODY RECORD				COC NUMBER		
225 Schilling Circle Suite 400 Hunt Valley MD Tel No: (410) 584-7000 Fax No: (410) 771-0925		PROJECT NUMBER: 62735DM02				COC-K016-2043		
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404				YEAR: 2020		
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 16065				QUARTER: 4 - December		
FAX AND MAIL REPORTS/EDD TO: Tara Lamond: tlamond@east.com EA		FAX AND MAIL REPORTS/EDD TO: Pam Moss: pmoss@east.com EA						
FAX AND MAIL REPORTS/EDD TO: Amanda Smith: asmith@east.com EA		LAB CONTACT: 1 (912) 354-7858						
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)				COMMENTS
1	GWK016-2043	12/01/2020	0933	(4500 S2CF) Sulfide	(4500 NH3B/C) Ammonia Nitrogen	(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	(353.2) Nitrate-Nitrite	
2				(300.0A) Chloride, bromide, sulfate	(6010C) Dissolved Fe, Mn	(6020A/6010C) Total (As, Pb, Cd, K, Na, Mg)	(EPA Method 504.1) EDB	
3				(EPA Method 524.2) BTEXN	(EPA Method 524.2) BTEX	(EPA Method 524.2) VOCs	Total Number of Bottles	
4								
5								
6								
SAMPLER(S): A. Roseborough, G. Begay		RELINQUISHED BY:		COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8068				TB2043-01
Printed Name and Signature: Amy Roseborough		DATE: 12/01/2020	TIME: 1430	RECEIVED BY:				DATE: 12-2-20
Printed Name and Signature: Amy Roseborough		Printed Name and Signature: D. A.		Printed Name and Signature:				TIME: 1030
Printed Name and Signature:		Printed Name and Signature:		Printed Name and Signature:				
Printed Name and Signature:		Printed Name and Signature:		Printed Name and Signature:				

EA		225 Schilling Circle Suite 400 Hunt Valley MO Tel No. (410) 584-7000 Fax No. (410) 771-1025		COC NUMBER COC-K015-2043	
PROJECT NAME: Kirtland AFB Bulk Fuels Facility		PROJECT NUMBER: 62735DM02		YEAR: 2020	
LABORATORY NAME AND CONTACT: Test America Sample Receiving 5102 LaRoche Ave Savannah, GA 31404		FAX AND MAIL REPORTS/EDD TO: Tara Lamond: talamond@east.com EA Ananda Smith: asmith@east.com EA Pam Moss: pmoss@east.com EA		QUARTER: 4 - December	
PROJECT SITE AND PHASE: ST106/SS111		LAB PO NUMBER: 16065		LAB CONTACT: 1 (912) 354-7858	
ITEM	SAMPLE IDENTIFIER	DATE COLLECTED	TIME COLLECTED	ANALYSIS REQUIRED (Specify number of bottles)	
1	GWK015-2043	12/01/2020	1010	(4500 S2CF) Sulfide	COMMENTS
2				(4500NH3B/C) Ammonia Nitrogen	
3				(2320B) Alkalinity (Total, Carbonate, and Bicarbonate)	
4				(353.2) Nitrate-Nitrite	
5				(300.0A) Chloride, bromide, sulfate	
6	AR			(6010C) Dissolved Fe, Mn	
				(6020A/6010C) Total (As,Pb,Ca,K,Na,Mg)	
				(EPA Method 504.1) EDB	
				(EPA Method 524.2) BTEXN	
				(EPA Method 524.2) BTEX	
				(EPA Method 524.2) VOCs	
				Total Number of Bottles	
SAMPLER(S): G. Begay, A. Rosebrough		RELINQUISHED BY:		COURIER AND SHIPPING NUMBER: FedEx 1347 4015 8068	
Printed Name and Signature: Amy Rosebrough		DATE 12/01/2020	TIME 1430	RECEIVED BY: 12-20 1030	
Printed Name and Signature:				Printed Name and Signature:	
Printed Name and Signature:				Printed Name and Signature:	
Printed Name and Signature:				Printed Name and Signature:	

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 680-192133-1

Login Number: 192133**List Source: Eurofins TestAmerica, Savannah****List Number: 1****Creator: Banda, Christy S**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 680-192133-1

Login Number: 192135**List Source: Eurofins TestAmerica, Savannah****List Number: 1****Creator: Sims, Robert D**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	