



EA Engineering, Science, & Technology, Inc., PBC
320 Gold Avenue SW, Suite 1300
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November 6, 2019

Mr. Corey Jarrett
New Mexico Environment Department
Petroleum Storage Tank Bureau
121 Tijeras Avenue NE, Suite 1000
Albuquerque, New Mexico 87102

Dear Mr. Jarrett:

EA Engineering, Science, and Technology, Inc., PBC (EA) is pleased to submit the Annual Groundwater Monitoring Report for Atex 213 State Lead Site, located at 3501 Isleta Boulevard in Albuquerque, New Mexico. The enclosed report summarizes groundwater monitoring activities conducted at the site on October 10, 2019. All work was performed under EA's State Lead Contract #18-667-3200-0016 and in accordance with applicable requirements of New Mexico Administrative Code, Title 20, Chapter 5, Part 119 and EA standard operating procedures.

EA plans to invoice a reduced amount of \$5,868.40 (including NMGR of 7.785%) for Deliverable ID 4077-1. Monitoring wells MW-3, W-35, and W-36 could not be located and were therefore not sampled.

Please feel free to contact me at (505) 369-3149 if you have any questions regarding the information provided in this report.

Sincerely,

EA Engineering, Science, and Technology, Inc., PBC

A handwritten signature in blue ink, appearing to read 'M. D. McVey', is written over a light blue circular stamp.

Michael D. McVey, P.G.
Senior Hydrogeologist

Enclosure
Cc: File



**ANNUAL GROUNDWATER
MONITORING REPORT
ATEX 213
3501 ISLETA BOULEVARD
ALBUQUERQUE, NEW MEXICO**

FACILITY #: 31815
RELEASE ID #: 28
WPID #: 4077

Prepared for:

New Mexico Environment Department
Petroleum Storage Tank Bureau
121 Tijeras Avenue NE, Suite 1000
Albuquerque, New Mexico 87102


Prepared by:

EA Engineering, Science,
and Technology, Inc., PBC
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102

November 2019

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: 

Name: Michael D. McVey, P.G.
Affiliation: EA Engineering, Science, and Technology, Inc., PBC
Title: Senior Hydrogeologist
Date: November 6, 2019

I. INTRODUCTION

EA Engineering, Science and Technology, Inc., PBC (EA) has completed the annual groundwater monitoring event at ATEX 213 (the site), located at 3501 Isleta Boulevard in Albuquerque, New Mexico. Groundwater monitoring activities were conducted in accordance with EA's *Work Plan for Annual Groundwater Monitoring, ATEX 213, Albuquerque, New Mexico*, approved by the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) on August 14, 2019 under work plan identification (WPID) number 4077. All work was completed in accordance with applicable requirements of New Mexico Administrative Code, Title 20, Chapter 5, Part 119 and EA standard operating procedures. This is the only deliverable under the approved work plan.

The site is located at the intersection of Del Sur Drive and Isleta Boulevard in the South Valley area of Albuquerque, New Mexico (Figure 1). The main parcel of the site is currently a vacant lot. Fast food restaurants are located to the north and east of the site, and a PNM electrical substation is located to the south. Residences are located to the west of the site. A Middle Rio Grande Conservancy District (MRGCD) irrigation ditch is located south of the PNM substation, and south of the irrigation ditch is another fast food restaurant. Del Sur Drive borders the site on the north and Isleta Boulevard borders the site on the east.

On October 10, 2019, EA measured fluid levels and collected groundwater samples from ten (10) monitoring wells, including MW-1R, MW-2, MW-4R, MW-6RR, MW-38, BB-2, NMW-1, NMW-4R, RNMW-2, and RNMW-3. Monitoring wells W-35, W-36, and MW-3 could not be located and were therefore not gauged or sampled. W-35 and W-36 appear to have been destroyed during installation of new landscaping at the McDonalds. Broken remnants of the concrete pad and well vault for MW-3 were observed in former location of the well, but the well casing could not be found and is assumed to have been destroyed.

Groundwater samples were analyzed for volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary-butyl ether (MTBE), 1,2 dibromoethane (EDB), 1,2 dichloroethane (EDC), and total naphthalenes by U.S. Environmental Protection Agency (EPA) Method 8260B.

This report summarizes the results of the annual groundwater monitoring event conducted at the site.

II. ACTIVITIES PERFORMED DURING THIS MONITORING PERIOD

This section provides a brief description of the activities performed during this monitoring period.

A. Brief Description of Remediation System and Date Installed

Billings & Associates (BAI) installed a pump and treat remediation system at the site in 1988. The system consisted of four recovery wells located along the southern property boundary, an air stripper, and eight injection wells southwest of the site. The system was ineffective and suffered from biofouling problems. It was subsequently shut down in late 1989. All remediation equipment has been removed from the site.

The corrective action activities that have been conducted at the site to date are summarized below:

- Souder, Miller & Associates (SMA) sampled the site in December 2006.
- EA completed semi-annual groundwater monitoring at the site from February 2012 through October 2013.
- EA performed additional monitoring well installation, well plugging and abandonment, and groundwater sampling in April and May 2014.
- In November 2014 during groundwater monitoring, it was noted that wells MW-1R, NMW-1, and RNMW-2 were damaged, and well MW-6R could not be located.
- In December 2014, damaged wells MW-1R, NMW-1, and RNMW-2 were repaired and MW-6R was replaced with a new monitoring well (MW-6RR).
- EA performed annual groundwater monitoring and a private and public well search in January 2017.
- Currently, EA is conducting groundwater monitoring at the site.

B. Description of Activities Performed to Keep System Operating Properly

Active remediation is not currently being conducted at the site. The remediation system that was operated at the site was shut down in late 1989. All remediation equipment has been removed from the site.

C. Monitoring Activities Performed

Fluid Level Gauging

On October 10, 2019, fluid levels were gauged in 10 monitoring wells (MW-1R, MW-2, MW-4R, MW-6RR, MW-38, BB-2, NMW-1, NMW-4R, RNMW-2, and RNMW-3) with an electronic water level meter to the nearest 0.01 foot. Non-aqueous phase liquid (NAPL) was not present in any of the wells. Table 1 provides a summary of the current and historical groundwater gauging data collected from the monitoring network. A potentiometric surface map was prepared based on the gauging data and is included as Figure 2.

Groundwater Sampling Activities

Monitoring wells were purged and sampled with new, disposable polyethylene bailers on October 10, 2019. All equipment was decontaminated between wells with an Alconox™ solution to ensure sample quality. Purge water was ground discharged to an impervious surface. Sampling was accomplished by carefully pouring groundwater from the bailer into the laboratory-provided sample containers.

Field parameters were measured with a Hanna HI 98194 multi-parameter meter during purging and prior to sampling. Specific conductance, pH, and temperature were monitored and recorded on well sampling field forms provided in Appendix A and are summarized in Table 2. The meter was calibrated and/or checked against a standard in accordance with manufacturer's specifications prior to use.

Sample containers, preservatives, analytical methods, and holding times are specified in Table 3. Samples for VOC analysis were collected such that no headspace existed in the sample vial. All samples were preserved in accordance with method requirements, then immediately cooled to less than 6°C with ice and delivered under chain-of-custody to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The analytical laboratory report is provided in Appendix B.

Groundwater Analytical Results

Dissolved-phase hydrocarbon concentrations were above applicable New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards in 3 of the 10 sampled wells, including NMW-1, RNMW-2, and BB-2. Wells NMW-1 and RNMW-2 contained benzene at concentrations of 84 micrograms per liter (µg/L) and 120 µg/L, respectively, above the 5 µg/L standard. Wells RNMW-2 and BB-2 contained total naphthalene concentrations above the 30 µg/L standard at 80.2 µg/L and 232 µg/L, respectively. RNMW-2 also contained MTBE above the 100 µg/L standard at 110 µg/L. None of the other sampled wells contained dissolved-phase hydrocarbon concentrations above either the laboratory method detection limits or applicable NMWQCC standards. Groundwater analytical laboratory results are summarized in Table 4.

D. System Performance and Effectiveness

Active remediation is not currently being conducted at the site. The remediation system that was operated at the site was shut down in late 1989. All remediation equipment has been removed from the site.

E. Statement Verifying Containment of Release

The actionable dissolved-phase benzene and MTBE plumes remain defined on-site. The actionable dissolved-phase total naphthalenes plume has migrated off-site to the south but remains defined by downgradient well NMW-4R. The extent of the total naphthalenes plume, however, has not been defined cross-gradient to the southwest and remains undefined to the north. During the last monitoring event in December 2017, upgradient wells W-35 and W-36 both contained total naphthalene concentrations above the standard. Both wells have been destroyed by recent landscaping at the McDonalds.

III. SUMMARY AND CONCLUSIONS

This section summarizes the results, contains a brief discussion of site trends, and provides recommendations for future site activities.

A. Discussion of Trends or Changes Noted in Analytical Results or Site Conditions

Groundwater levels beneath the site rose an average of 0.45 foot in site wells since the last monitoring event in December 2017. Increases ranged from 0.42 foot in MW-1R to 0.51 foot in BB-2 and NMW-4R (Table 1). Hydrographs for select site wells are included in Appendix C. The overall direction of groundwater flow is to the south-southeast at an average gradient of approximately 0.0008 foot per foot (ft/ft), decreasing from 0.0015 ft/ft during the last monitoring event.

The following trends or changes were noted since the last monitoring event in December 2017:

BB-2: The total naphthalenes concentration increased two orders of magnitude from 4.2 µg/L to 232 µg/L and this is the first time that the total naphthalenes concentration has exceeded the NMWQCC standard in samples collected from the well. Historical concentrations have ranged from non-detect to a high of 17 µg/L.

NMW-1: The benzene concentration increased from 79 µg/L to 84 µg/L, but remains at the lower end of historical concentrations which have ranged from a high of 1,100 µg/L to low of 52 µg/L. Benzene has exceeded the standard during every monitoring event dating back to April 2004 when the well was first sampled after having contained NAPL. The total naphthalenes concentration decreased slightly and remains below the standard for the second consecutive monitoring event.

RNMW-2: The benzene concentration increased two orders of magnitude from <1.0 µg/L to 120 µg/L after having been below the standard for two consecutive monitoring events. The total naphthalenes concentration increased an order of magnitude from <4.0 µg/L to 80.2 µg/L. This is only the second time since July 2005 that the total naphthalenes concentration has exceeded the standard in samples collected from the well. MTBE increased an order of magnitude from 18 µg/L to 110 µg/L and once again exceeds the standard. The last exceedance was in March 2013.

MW-1R, MW-2, MW-4R, MW-6RR, MW-38, RNMW-3, and NMW-4R: Well MW-1R was not sampled during the last monitoring event due to root obstruction. During this monitoring event, the roots were removed from the interior of the well casing to allow for gauging and sampling. Concentrations of contaminants of concern (COCs) in all of these wells remained either below laboratory method detection limits or NMWQCC standards.

The distribution of dissolved-phase hydrocarbons for the October 10, 2019 monitoring event is shown on Figure 3. Contaminant concentration trends for select COCs and wells are included in Appendix D.

B. Ongoing Assessment of Remediation System

The remediation system installed by BAI was ineffective due to biofouling problems and was shut down permanently in late 1989. All remediation equipment has been removed from the site.

C. Recommendations

Based on the results of annual groundwater monitoring, EA recommends the following:

- Continued annual groundwater monitoring,
- Collect tap samples from the two domestic wells located near the site,
- Reinstall monitor wells W-35 and W-36 to monitor upgradient trends in total naphthalene concentrations, which have consistently exceeded standards in both wells, and
- Install two additional monitor wells to the west and southwest of the site to delineate the extent of the actionable dissolved-phase total naphthalenes plume.

TABLES

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²
MW-1	29-Apr-14	4929.78	Well plugged and abandoned	
	1-Oct-13		Dry	NM
	25-Mar-13		Dry	NM
	22-Aug-12		Dry	NM
	21-Feb-12		Dry	NM
	26-Dec-06		Dry	NM
	25-Sep-06		Dry	NM
	17-May-06		Dry	NM
	31-Jan-06		Dry	NM
	3-Nov-05		Dry	NM
	28-Jul-05		Dry	NM
	22-Apr-04		9.25	4920.53
MW-1R	10-Oct-19	4932.08	8.45	4923.63
	20-Dec-17		8.87	4923.21
	17-Jan-17		8.98	4923.10
	19-May-15		8.86	4923.22
	17-Nov-14	***	9.19	-
	2-May-14	4932.03	9.06	4922.97
MW-2	10-Oct-19	4934.72	11.17	4923.55
	20-Dec-17		11.61	4923.11
	17-Jan-17		11.73	4922.99
	19-May-15		11.59	4923.13
	17-Nov-14		11.96	4922.76
	2-May-14		11.74	4922.98
	1-Oct-13		11.64	4923.08
	25-Mar-13		11.96	4922.76
	22-Aug-12		11.68	4923.04
	21-Feb-12		12.13	4922.59
	26-Dec-06		11.94	4922.78
	25-Sep-06		11.82	4922.90
	17-May-06		11.72	4923.00
	31-Jan-06		12.27	4922.45
	3-Nov-05		11.45	4923.27
	28-Jul-05		11.39	4923.33
22-Apr-04	11.43	4923.29		

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²
MW-3	10-Oct-19	4932.98	Could not locate well	
	20-Dec-17		9.87	4923.11
	17-Jan-17		9.98	4923.00
	19-May-15		9.82	4923.16
	17-Nov-14		10.19	4922.79
	2-May-14		10.00	4922.98
	1-Oct-13		9.80	4923.18
	25-Mar-13		10.25	4922.73
	22-Aug-12		9.92	4923.06
	21-Feb-12		10.42	4922.56
	26-Dec-06		10.27	4922.71
	25-Sep-06		10.05	4922.93
	17-May-06		10.02	4922.96
	31-Jan-06		10.57	4922.41
	3-Nov-05		9.78	4923.20
28-Jul-05	9.65	4923.33		
22-Apr-04	9.71	4923.27		
MW-4	29-Apr-14	4932.55	Well plugged and abandoned	
	1-Oct-13		Well destroyed	
	25-Mar-13		12.64	4919.91
	22-Aug-12		12.32	4920.23
	21-Feb-12		12.81	4919.74
	26-Dec-06		12.64	4919.91
	25-Sep-06		12.42	4920.13
	17-May-06		12.35	4920.20
	31-Jan-06		12.94	4919.61
	3-Nov-05		12.19	4920.36
	28-Jul-05		12.03	4920.52
	22-Apr-04		12.07	4920.48
MW-4R	10-Oct-19	4933.42	9.94	4923.48
	20-Dec-17		10.39	4923.03
	17-Jan-17		10.57	4922.85
	19-May-15		10.36	4923.06
	17-Nov-14		10.74	4922.68
	2-May-14		10.56	4922.86

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²
MW-5	1-May-14	4931.85	Well plugged and abandoned	
	1-Oct-13		Dry	NM
	25-Mar-13		Dry	NM
	22-Aug-12		Dry	NM
	21-Feb-12		Dry	NM
	26-Dec-06		11.54	4920.31
	25-Sep-06		11.15	4920.70
	17-May-06		11.12	4920.73
	31-Jan-06		11.83	4920.02
	3-Nov-05		11.00	4920.85
	28-Jul-05		10.78	4921.07
	22-Apr-04		11.44	4920.41
MW-6	29-Apr-14	4931.51	Well plugged and abandoned	
	1-Oct-13		13.18	4918.33
	25-Mar-13		13.14	4918.37
	22-Aug-12		13.00	4918.51
	21-Feb-12		11.58	4919.93
	26-Dec-06		11.89	4919.62
	25-Sep-06		11.37	4920.14
	17-May-06		11.31	4920.20
	31-Jan-06		11.92	4919.59
	3-Nov-05		11.22	4920.29
	28-Jul-05		11.03	4920.48
	22-Apr-04		11.04	4920.47
MW-6R	17-Nov-14	4934.26	Well destroyed	
	2-May-14		11.36	4922.90
MW-6RR	10-Oct-19	4933.90	10.34	4923.56
	20-Dec-17		10.78	4923.12
	17-Jan-17		10.90	4923.00
	19-May-15		10.73	4923.17
	22-Dec-14	‡	11.20	‡
MW-10	26-Dec-06	4930.98	Plugged	
	25-Sep-06			
	17-May-06			
	31-Jan-06			
	3-Nov-05			
	28-Jul-05			
22-Apr-04				

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²
MW-29	1-May-14	4930.19	Well plugged and abandoned	
	1-Oct-13		9.81	4920.38
	25-Mar-13		10.11	4920.08
	22-Aug-12		9.87	4920.32
	21-Feb-12		10.32	4919.87
	26-Dec-06		11.14	4919.05
	25-Sep-06		10.01	4920.18
	17-May-06		9.89	4920.30
	31-Jan-06		10.45	4919.74
	3-Nov-05		9.66	4920.53
	28-Jul-05		9.56	4920.63
	22-Apr-04		9.60	4920.59
MW-38	10-Oct-19	4931.87	8.36	4923.51
	20-Dec-17		8.83	4923.04
	17-Jan-17		8.96	4922.91
	19-May-15		8.78	4923.09
	17-Nov-14		9.18	4922.69
	2-May-14		8.96	4922.91
	1-Oct-13		4929.10	8.85
	25-Mar-13	9.15		4922.72
	22-Aug-12	8.88		4922.99
	21-Feb-12	9.38		4922.49
	26-Dec-06	9.19		4922.68
	25-Sep-06	8.97		4922.90
	17-May-06	8.90		4922.97
	31-Jan-06	9.49		4922.38
	3-Nov-05	8.70		4923.17
	28-Jul-05	8.56		4923.31
	22-Apr-04	8.62	4923.25	

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²	
BB-2	10-Oct-19	4934.64	11.18	4923.46	
	20-Dec-17		11.69	4922.95	
	17-Jan-17		11.82	4922.82	
	19-May-15		11.56	4923.08	
	17-Nov-14		12.06	4922.58	
	2-May-14		11.81	4922.83	
	1-Oct-13	4931.31	11.70	4922.94	
	25-Mar-13		12.05	4922.59	
	22-Aug-12		11.69	4922.95	
	21-Feb-12		12.24	4922.40	
	26-Dec-06		12.04	4922.60	
	25-Sep-06		11.72	4922.92	
	17-May-06		11.66	4922.98	
	31-Jan-06		12.36	4922.28	
	3-Nov-05		11.56	4923.08	
	28-Jul-05		11.34	4923.30	
	22-Apr-04		10.88	4923.76	
	NMW-1		10-Oct-19	4932.63	8.96
20-Dec-17		9.39	4923.24		
17-Jan-17		9.57	4923.06		
19-May-15		9.38	4923.25		
17-Nov-14		***	9.72	NA	
2-May-14		4932.62	9.55	4923.07	
1-Oct-13		4929.81	9.41	4920.40	
25-Mar-13			9.75	4920.06	
22-Aug-12			9.48	4920.33	
21-Feb-12			9.93	4919.88	
26-Dec-06			9.75	4920.06	
25-Sep-06			9.62	4920.19	
17-May-06			9.53	4920.28	
31-Jan-06			10.70	4919.11	
3-Nov-05			9.31	4920.50	
28-Jul-05			9.22	4920.59	
22-Apr-04			9.24	4920.57	
NMW-2*			28-Jul-05	4930.38	Destroyed
	22-Apr-04		10.03		4920.35
NMW-3*	28-Jul-05		4930.56	Destroyed	NM
	22-Apr-04	10.28		4920.28	

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Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²
NMW-4	30-Apr-14	4929.02	Well plugged and abandoned	
	1-Oct-13		9.59	4919.43
	25-Mar-13		9.90	4919.12
	22-Aug-12		9.59	4919.43
	21-Feb-12		10.12	4918.90
	26-Dec-06		10.94	4918.08
	25-Sep-06		9.59	4919.43
	17-May-06		NM	NM
	31-Jan-06		NM	NM
	3-Nov-05		NM	NM
	28-Jul-05		NM	NM
	22-Apr-04		10.33	4918.69
NMW-4R	10-Oct-19	4932.53	9.24	4923.29
	20-Dec-17		9.75	4922.78
	17-Jan-17		9.88	4922.65
	19-May-15		9.68	4922.85
	17-Nov-14		10.12	4922.41
	2-May-14		9.91	4922.62
W-34	1-May-14	4928.70	Well plugged and abandoned	
	1-Oct-13		Well paved over	
	25-Mar-13		8.61	4920.09
	22-Aug-12		8.33	4920.37
	21-Feb-12		8.77	4919.93
	26-Dec-06		8.61	4920.09
	25-Sep-06		8.51	4920.19
	17-May-06		8.40	4920.30
	31-Jan-06		8.92	4919.78
	3-Nov-05		8.11	4920.59
	28-Jul-05		8.09	4920.61
	22-Apr-04		7.92	4920.78

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²		
W-35	10-Oct-19	4931.50	Could not locate well			
	20-Dec-17		8.47	4923.03		
	17-Jan-17		8.56	4922.94		
	19-May-15		8.44	4923.06		
	17-Nov-14		8.78	4922.72		
	2-May-14		8.65	4922.85		
	1-Oct-13	4928.93	Well paved over			
	25-Mar-13		8.85	4922.65		
	22-Aug-12		8.55	4922.95		
	21-Feb-12		8.99	4922.51		
	26-Dec-06		8.83	4922.67		
	25-Sep-06		8.74	4922.76		
	17-May-06		8.64	4922.86		
	31-Jan-06		9.14	4922.36		
	3-Nov-05		8.31	4923.19		
	28-Jul-05		8.29	4923.21		
	22-Apr-04		8.14	4923.36		
	W-36		10-Oct-19	4932.00	Could not locate well	
			20-Dec-17		8.63	4923.37
17-Jan-17		8.76	4923.24			
19-May-15		8.62	4923.38			
17-Nov-14		8.97	4923.03			
2-May-14		8.80	4923.20			
1-Oct-13		4929.11	Well paved over			
25-Mar-13			9.01	4922.99		
22-Aug-12			8.72	4923.28		
21-Feb-12			9.15	4922.85		
26-Dec-06			8.97	4923.03		
25-Sep-06			8.92	4923.08		
17-May-06			8.79	4923.21		
31-Jan-06			9.30	4922.70		
3-Nov-05			8.50	4923.50		
28-Jul-05			8.48	4923.52		
22-Apr-04			8.31	4923.69		

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²
W-37	1-May-14	4930.10	Well plugged and abandoned	
	1-Oct-13		Well paved over	
	25-Mar-13		9.97	4920.13
	22-Aug-12		9.67	4920.43
	21-Feb-12		10.09	4920.01
	26-Dec-06		8.78	4921.32
	25-Sep-06		9.90	4920.20
	17-May-06		9.74	4920.36
	31-Jan-06		10.22	4919.88
	3-Nov-05		9.49	4920.61
	28-Jul-05		9.43	4920.67
	22-Apr-04		9.26	4920.84
RNMW-2**	10-Oct-19	4933.45	9.88	4923.57
	20-Dec-17		10.31	4923.14
	17-Jan-17		10.44	4923.01
	19-May-15		10.27	4923.18
	17-Nov-14	***	10.87	NA
	2-May-14	4933.74	10.70	4923.04
	1-Oct-13	4930.88	10.57	4920.31
	25-Mar-13		10.90	4919.98
	22-Aug-12		10.61	4920.27
	21-Feb-12		11.09	4919.79
	26-Dec-06		10.92	4919.96
	25-Sep-06		10.72	4920.16
	17-May-06		10.64	4920.24
	31-Jan-06		11.23	4919.65
	3-Nov-05		10.44	4920.44
28-Jul-05	10.33		4920.55	

**TABLE 1. SUMMARY OF FLUID GAUGING DATA
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Monitor Well	Date Measured	Casing Elevation ²	Depth to Water ³	Groundwater Elevation ²
RNMW-3**	10-Oct-19	4933.22	9.65	4923.57
	20-Dec-17		10.09	4923.13
	17-Jan-17		10.22	4923.00
	19-May-15		10.06	4923.16
	17-Nov-14		10.45	4922.77
	2-May-14		10.23	4922.99
	1-Oct-13	4930.42	10.12	4923.10
	25-Mar-13		10.45	4922.77
	22-Aug-12		10.17	4923.05
	21-Feb-12		10.65	4922.57
	26-Dec-06		10.49	4922.73
	25-Sep-06		10.27	4922.95
	17-May-06		10.20	4923.02
	31-Jan-06		10.80	4922.42
	3-Nov-05		9.99	4923.23
	28-Jul-05		9.89	4923.33

NOTES:
The top of casing elevation for wells MW-2 and MW-3 were adjusted by -0.17 and -0.89, respectively from the survey point top of well steel plate on pipe.
¹ Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)
² Vertical Control to NAVD88 Datum in feet above mean sea level
³ Measured in feet below the top of casing at survey point on north side of well
* = Well Destroyed during source area excavation.
** = Replacement well installed 4/27/05.
*** =Surface completion/casing damaged at time of measurement
‡=Waiting for survey data
NM = not measured.

**TABLE 2. SUMMARY OF GROUNDWATER FIELD PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	pH	SpC (μ S/cm)	Temp ($^{\circ}$ C)	DO (mg/L)
MW-1	Apr-14	Well plugged and abandoned			
	1-Oct-13	Well dry			
	25-Mar-13	Well dry			
	22-Aug-12	Well dry			
	21-Feb-12	Well dry			
MW-1R	10-Oct-19	7.42	1,041	23.4	NM
	20-Dec-17	Not enough water to sample			
	17-Jan-17	Well bailed dry			
	19-May-15	Well bailed dry			
	17-Nov-14	7.56	913	21.8	1.18
	1-May-14	7.8	803	19.4	1.55
MW-2	10-Oct-19	7.19	959.5	24.1	NM
	20-Dec-17	6.82	1,225	22.6	1.14
	17-Jan-17	7.11	1,060	20.6	2.02
	19-May-15	7.21	816	19.1	1.86
	17-Nov-14	7.1	1,009	22.9	1.70
	1-May-14	7.63	981	18.8	1.40
	1-Oct-13	6.31	1,023	25.5	NM
	25-Mar-13	6.29	1,111	18.4	1.04
	22-Aug-12	8.17	950	24.5	1.31
	21-Feb-12	NM	761	19.7	1.35
MW-3	10-Oct-19	Could not locate well			
	20-Dec-17	7.21	934	21.8	0.48
	17-Jan-17	7.37	907	20.6	1.55
	19-May-15	7.52	994	19.8	3.33
	17-Nov-14	7.45	941	20.9	1.35
	1-May-14	7.70	1,043	19.1	1.77
	10-Oct-13	7.23	942	22.6	1.15
	25-Mar-13	6.64	1,021	17.6	0.97
	23-Aug-12	8.48	963	20.9	1.07
	21-Feb-12	NM	898	18.4	1.15
MW-4	Apr-14	Well plugged and abandoned			
	1-Oct-13	Well destroyed			
	25-Mar-13	6.42	946	18.0	1.20
	23-Aug-12	8.11	980	24.9	1.38
	22-Feb-12	6.09	981	13.8	1.21
MW-4R	10-Oct-19	7.48	778.6	22.6	NM
	20-Dec-17	7.35	771	22.5	1.04
	17-Jan-17	7.35	864	20.3	1.73
	19-May-15	7.60	664	19.8	1.32
	17-Nov-14	7.50	649	21.6	0.85
1-May-14	7.69	922	20.0	2.18	

**TABLE 2. SUMMARY OF GROUNDWATER FIELD PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	pH	SpC ($\mu\text{S}/\text{cm}$)	Temp ($^{\circ}\text{C}$)	DO (mg/L)
MW-5	Apr-14	Well plugged and abandoned			
	1-Oct-13	Well dry			
	25-Mar-13	Well dry			
	22-Aug-12	Well dry			
	21-Feb-12	Well dry			
MW-6	Apr-14	Well plugged and abandoned			
	29-Apr-14	Well dry			
	1-Oct-13 ¹	NM	NM	NM	NM
	25-Mar-13	NM	NM	NM	NM
	22-Aug-12	NM	NM	NM	NM
	22-Feb-12	6.37	6,310	15.6	NM
MW-6R	17-Nov-14	Well destroyed			
	1-May-14	7.93	880	20.0	2.19
MW-6RR	10-Oct-19	7.51	783	23.3	NM
	20-Dec-17	7.39	770	22.0	1.00
	17-Jan-17	7.37	780	21.0	1.63
	19-May-15	7.54	734	19.7	1.10
	22-Dec-14	7.18	815	21.1	10.4
MW-29	May-14	Well plugged and abandoned			
	1-Oct-13	6.29	1,024	24.9	NM
	25-Mar-13	6.35	1,231	16.2	1.34
	23-Aug-12	7.18	1,179	26.3	0.99
	21-Feb-12	NM	884	16.7	1.82
MW-38	10-Oct-19	7.13	896.6	23.4	NM
	20-Dec-17	6.87	975	18.9	1.60
	17-Jan-17	6.96	950	19.1	1.48
	19-May-15	7.06	488	19.3	2.82
	17-Nov-14	7.2	880	21.7	1.76
	1-May-14	7.59	984	19.0	1.53
	1-Oct-13	6.13	1,003	25.4	NM
	25-Mar-13	6.41	1,034	17.4	0.77
	23-Aug-12	7.79	1,090	25.1	2.1
	21-Feb-12	NM	859	17.8	1.08
BB-2	10-Oct-19	7.28	864	22.4	NM
	20-Dec-17	7.26	824	20.5	1.11
	17-Jan-17	7.47	838	18.7	2.40
	19-May-15	7.44	882	18.1	2.39
	17-Nov-14	7.37	862	19.8	1.92
	1-May-14	7.77	945	17.7	1.74
	1-Oct-13	6.27	952	23.2	NM
	25-Mar-13	6.43	1,009	17.1	1.47
	23-Aug-12	7.61	1,002	26.9	1.19
	21-Feb-12	NM	798	17.5	2.32

**TABLE 2. SUMMARY OF GROUNDWATER FIELD PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	pH	SpC (μ S/cm)	Temp ($^{\circ}$ C)	DO (mg/L)
NMW-1	10-Oct-19	7.03	888.9	25.5	NM
	20-Dec-17	6.85	1,097	22.6	0.28
	17-Jan-17	7.03	948	20.1	1.42
	19-May-15	6.92	1,015	19.9	1.22
	17-Nov-14	7.09	986	23.1	1.06
	2-May-14	7.29	1,174	19.0	1.31
	1-Oct-13	6.30	1,091	26.0	NM
	26-Mar-13	6.31	1,124	17.1	0.63
	23-Aug-12	8.43	1,066	24.1	1.11
	21-Feb-12	NM	904	18.2	1.18
RNMW-2	10-Oct-19	7.13	1,015	24.5	NM
	20-Dec-17	7.04	1,232	22.0	1.30
	17-Jan-17	7.26	933	20.4	1.78
	19-May-15	7.35	847	19.7	1.33
	17-Nov-14	7.32	871	22.2	0.56
	2-May-14	7.47	1,053	19.2	1.30
	1-Oct-13	6.49	1,051	24.5	NM
	26-Mar-13	6.43	1,048	18.6	0.74
	22-Aug-12	7.84	1,176	23.1	1.28
	21-Feb-12	NM	852	19.3	1.14
RNMW-3	10-Oct-19	7.32	1,038	24.9	NM
	20-Dec-17	7.23	1,117	21.2	0.40
	17-Jan-17	7.25	628	20.8	2.01
	19-May-15	7.36	889	20.3	1.31
	17-Nov-14	7.32	1,007	22.5	1.48
	2-May-14	7.53	1,009	19.7	1.54
	1-Oct-13	6.37	1,065	25.0	NM
	26-Mar-13	6.71	1,002	18.5	0.70
	23-Aug-12	8.28	1,128	25.2	1.21
	21-Feb-12	NM	976	19.1	1.52
NMW-4	Apr-14	Well plugged and abandoned			
	1-Oct-13	NM	NM	NM	NM
	25-Mar-13	NM	NM	NM	NM
	23-Aug-12	NM	NM	NM	NM
	21-Feb-12	NM	NM	NM	NM
NMW-4R	10-Oct-19	6.82	528.6	22.6	NM
	20-Dec-17	7.28	433	21.4	0.37
	17-Jan-17	7.42	567	19.3	1.75
	19-May-15	7.44	784	19.2	2.12
	17-Nov-14	7.36	513	20.9	1.31
	1-May-14	Developed at 4 gallons per minute; ~180 gallons removed			

**TABLE 2. SUMMARY OF GROUNDWATER FIELD PARAMETERS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	pH	SpC (μ S/cm)	Temp ($^{\circ}$ C)	DO (mg/L)
W-34	May-14	Well plugged and abandoned			
	1-Oct-13	Well paved over			
	25-Mar-13	6.55	1,129	17.3	0.77
	22-Aug-12	7.59	822	23.4	1.02
	21-Feb-12	NM	820	18.5	1.07
W-35	10-Oct-19	Could not locate well			
	20-Dec-17	7.25	960	22.1	0.92
	17-Jan-17	7.31	818	19.6	1.69
	19-May-15	7.37	889	21.0	1.78
	17-Nov-14	7.28	1065	22.6	2.48
	2-May-14	7.44	1148	19.5	0.91
	1-Oct-13	Well paved over - uncovered May 2014			
	25-Mar-13	6.63	1,238	16.7	0.84
	22-Aug-12	7.73	1,091	25.0	0.96
	21-Feb-12	NM	852	17.7	0.97
W-36	10-Oct-19	Could not locate well			
	20-Dec-17	7.20	990	21.8	0.55
	17-Jan-17	7.19	862	19.6	1.82
	19-May-15	7.22	677	19.6	1.63
	17-Nov-14	7.24	847	22.1	1.66
	2-May-14	7.39	878	18.8	3.03
	1-Oct-13	Well paved over - uncovered May 2014			
	25-Mar-13	6.24	1,143	17.5	0.75
	22-Aug-12	8.14	976	24.6	1.06
	21-Feb-12	NM	863	18.0	1.25
W-37	May-14	Well plugged and abandoned			
	1-Oct-13	Well paved over			
	25-Mar-13	6.86	1,085	19.1	1.04
	22-Aug-12	6.82	1,012	24.3	1.15
	21-Feb-12	NM	819	19.9	1.21

NOTES:

¹ Unable to obtain parameters due to extremely poor recharge.
SpC = Specific conductance in microsiemens per centimeter (μ S/cm)
Temp = Temperature in degrees Celsius ($^{\circ}$ C)
DO = Dissolved oxygen in milligrams per liter (mg/L)
NM = Not Measured

**TABLE 3. SAMPLE ANALYTICAL AND QUALITY CONTROL REQUIREMENTS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Target Analytes	Matrix	Analytical Method	Sample Container	Preservative	Holding Time
VOCs	Water	EPA 8260B	3 x 40-mL glass vials	Mercuric Chloride; Cool to < 6°C	14 days
NOTES: VOCs = Volatile Organic Compounds with naphthalenes EPA = U.S. Environmental Protection Agency mL = Milliliters °C = Degrees Celcius					

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
MW-1	29-Apr-14	Well plugged and abandoned					
	1-Oct-13	Well dry					
	22-Aug-12	Well dry					
	21-Feb-12	Well dry					
	26-Dec-06	Well dry					
	25-Sep-06	Well dry					
	17-May-06	Well dry					
	31-Jan-06	Well dry					
	3-Nov-05	Well dry					
	28-Jul-05	Well dry					
	22-Apr-04	<1.0	<1.0	4.8	<1.0	<1.0	4.3
	Jan-98	ND	110	320	370	2,200	NA
MW-1R	10-Oct-19	<1.0	<1.0	1.5	<1.5	<1.0	13
	20-Dec-17	Well dry					
	17-Jan-17	<2.0	<2.0	<2.0	<3.0	<2.0	<8.0
	19-May-15	<1.0	<1.0	21	<1.5	<1.0	13
	17-Nov-14	<1.0	1.6	50	4.6	<1.0	59.9
	1-May-14	<10	<10	440	260	<10	534
MW-2	10-Oct-19	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	20-Dec-17	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	17-Jan-17	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	19-May-15	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	17-Nov-14	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	1-May-14	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	1-Oct-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	22-Aug-12	<1.0	<1.0	<1.0	<1.5	3.0	<4.0
	21-Feb-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	26-Dec-06	Well not sampled					
	25-Sep-06	<1.0	<1.0	<1.0	<3.0	2.5	<10.0
	17-May-06	<1.0	<1.0	<1.0	<3.0	1.9	<10.0
	31-Jan-06	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
	3-Nov-05	Well not sampled					
	28-Jul-05	<1.0	<1.0	<1.0	<1.0	3.6	<10.0
	22-Apr-04	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
Jan-98	1.9	ND	0.7	0.7	10	NA	

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
MW-3	20-Dec-17	2.4	1.4	17	7.1	<1.0	190
	17-Jan-17	1.7	1.6	16	7.2	<1.0	166
	19-May-15	2.3	1.4	12	8.4	<1.0	127
	17-Nov-14	3.5	<2.0	17	8.6	<2.0	119
	1-May-14	<1.0	<1.0	3.6	2.4	<1.0	24.6
	26-Mar-13	3.7	1.8	18	22	<1.0	108
	23-Aug-12	6.4	<5.0	19	28	<5.0	60
	21-Feb-12	7.4	<5.0	37	55	<5.0	142
	26-Dec-06	160	58	220	460	530	610
	25-Sep-06	62	11	37	100	230	180
	17-May-06	46	6.5	29	55	230	142
	31-Jan-06	60	<20	83	110	500	170
	3-Nov-05	180	9.7	58	47	920	438
	28-Jul-05	52	<10	14	<10	410	90
	22-Apr-04	100	<10	25	11	320	98
Jan-98	2,400	110	320	370	2,200	NA	
MW-4	29-Apr-14	Well plugged and abandoned					
	1-Oct-13	Well destroyed					
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	62	<4.0
	23-Aug-12	<1.0	<1.0	<1.0	<1.5	46	<4.0
	22-Feb-12	<1.0	<1.0	<1.0	<1.5	18	<4.0
	26-Dec-06	93	<10	<10	<30	790	<100
	25-Sep-06	<1.0	<1.0	<1.0	<3.0	580	<10.0
	17-May-06	<1.0	<1.0	<1.0	<3.0	180	<10.0
	31-Jan-06	<1.0	<1.0	<1.0	<1.0	220	<10.0
	3-Nov-05	<5.0	<5.0	<5.0	<5.0	500	<50
	28-Jul-05	<1.0	<1.0	<1.0	<1.0	720	<10.0
22-Apr-04	590	<10	<10	<10	1400	<100	
MW-4R	10-Oct-19	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	20-Dec-17	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	17-Jan-17	<1.0	<1.0	<1.0	<1.5	7.0	<4.0
	19-May-15	<1.0	<1.0	<1.0	<1.5	3.5	<4.0
	17-Nov-14	<1.0	<1.0	<1.0	<1.5	8.0	<4.0
	1-May-14	29	<1.0	3.8	<1.5	55	64.6

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
MW-5	1-May-14	Well plugged and abandoned					
	1-Oct-13	Well dry					
	25-Mar-13	Well dry					
	22-Aug-12	Well dry					
	21-Feb-12	Well dry					
	26-Dec-06	<1.0	<1.0	<1.0	<3.0	25	<10.0
	25-Sep-06	<1.0	<1.0	<1.0	<3.0	<1.5	<10.0
	17-May-06	<1.0	<1.0	<1.0	<3.0	<1.5	<10.0
	31-Jan-06	<1.0	<1.0	<1.0	<1.0	190	<10.0
	3-Nov-05	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
	29-Jul-05	<1.0	<1.0	<1.0	<1.0	<2.0	<10.0
	22-Apr-04	<1.0	<1.0	<1.0	<1.0	280	<10.0
	Jun-94	<0.5	<0.5	<0.5	<0.5	<2.5	NA
MW-6	29-Apr-14	Well plugged and abandoned					
	1-Oct-13	Well dry					
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	1.1	<4.0
	22-Aug-12	<1.0	<1.0	<1.0	<1.5	1.8	<4.0
	22-Feb-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	26-Dec-06	33	<10	16	<30	720	395
	25-Sep-06	84	<5.0	32	15	1,200	630
	17-May-06	20	<10	11	<30	490	160
	31-Jan-06	24	<10	20	13	730	253
	3-Nov-05	46	<5.0	28	16	570	380
	29-Jul-05	45	<20	<20	<20	800	210
23-Apr-04	50	<10	14	15	830	140	
MW-6R	17-Nov-14	Well destroyed					
	1-May-14	1.6	<1.0	6.6	<1.5	6.2	55.5
MW-6RR	10-Oct-19	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	20-Dec-17	3.4	<1.0	<1.0	<1.5	1.5	7.2
	17-Jan-17	<1.0	<1.0	<1.0	<1.5	<1.0	4.3
	19-May-15	<1.0	<1.0	24	3.2	4.6	38.8
	22-Dec-14	<5.0	<5.0	130	27	13	262

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
MW-29	1-May-14	Well plugged and abandoned					
	1-Oct-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	23-Aug-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	21-Feb-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	26-Dec-06	Well not sampled					
	25-Sep-06	<1.0	<1.0	<1.0	<1.0	7.5	<10.0
	17-May-06	Well not sampled					
	31-Jan-06	Well not sampled					
	3-Nov-05	Well not sampled					
	29-Jul-05	<1.0	<1.0	<1.0	<1.0	6.8	<10.0
	22-Apr-04	<1.0	<1.0	<1.0	<1.0	14	<10.0
	1-Jun-94	<0.5	<0.5	<0.5	<0.5	<2.5	NA
	MW-38	10-Oct-19	<1.0	<1.0	<1.0	<1.5	<1.0
20-Dec-17		<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
17-Jan-17		<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
19-May-15		<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
17-Nov-14		<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
1-May-14		<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
1-Oct-13		<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
25-Mar-13		<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
23-Aug-12		1.5	<1.0	<1.0	<1.5	1.2	15
21-Feb-12		<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
26-Dec-06		13	<1.0	2.5	<3.0	<1.5	12
25-Sep-06		1.5	<1.0	<1.0	<3.0	<1.5	3.1
17-May-06		1.4	<1.0	<1.0	<3.0	<1.5	<10.0
31-Jan-06		2.5	<1.0	<1.0	<1.0	<1.0	2.5
3-Nov-05		<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
29-Jul-05		1.4	<1.0	<1.0	<1.0	<1.0	<10.0
22-Apr-04		1.7	<1.0	<1.0	<1.0	<1.0	<10.0
Jan-98		46	1.2	8.1	7.6	9	NA

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
BB-2	10-Oct-19	<1.0	<1.0	3.8	<1.5	17	232
	20-Dec-17	<1.0	<1.0	<1.0	<1.5	20	4.2
	17-Jan-17	<1.0	<1.0	<1.0	<1.5	41	3.9
	19-May-15	<1.0	<1.0	<1.0	<1.5	27	3.9
	17-Nov-14	<1.0	<1.0	<1.0	<1.5	26	<4.0
	1-May-14	<1.0	<1.0	<1.0	<1.5	17	<4.0
	1-Oct-13	<1.0	<1.0	<1.0	<1.5	53	<4.0
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	150	<4.0
	23-Aug-12	<1.0	<1.0	1.3	<1.5	94	17.0
	21-Feb-12	<1.0	<1.0	<1.0	<1.5	290	<4.0
	26-Dec-06	Well not sampled					
	25-Sep-06	<1.0	<1.0	1.1	<1.0	<1.5	15.5
	17-May-06	Well not sampled					
	31-Jan-06	Well not sampled					
	3-Nov-05	Well not sampled					
	29-Jul-05	<1.0	<1.0	4.6	<1.0	<2.0	7.6
	22-Apr-04	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
Jan-98	5.8	ND	50	21	1,200	NA	
NMW-1	10-Oct-19	84	1.0	3.6	13	12	21.7
	20-Dec-17	79	1.0	3.0	4.7	11	23.3
	17-Jan-17	220	<5.0	47	32	16	59
	19-May-15	430	11	100	140	62	140
	17-Nov-14	52	<5.0	5.3	19	9.3	<20
	2-May-14	190	1.6	5.9	6.3	35	25.4
	1-Oct-13	290	8.4	3.1	39	44	52.1
	26-Mar-13	510	17	22	71	130	126
	23-Aug-12	490	<10	23	70	94	48
	21-Feb-12	390	<10	33	38	110	92
	26-Dec-06	950	55	44	900	750	760
	25-Sep-06	410	<10	<10	86	420	140
	17-May-06	340	95	<20	1,700	320	840
	31-Jan-06	810	56	<50	1,100	570	220
	3-Nov-05	710	170	<50	640	480	190
	28-Jul-05	1,100	390	<50	3,600	840	920
22-Apr-04	990	200	28	1,100	580	272	
Jan-98	Well not sampled due to presence of NAPL						

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
NMW-2/RNMW-2	10-Oct-19	120	1.9	3.4	2.8	110	80.2
	20-Dec-17	<1.0	<1.0	<1.0	<1.5	18	<4.0
	17-Jan-17	<1.0	<1.0	<1.0	<1.5	23	<4.0
	19-May-15	12	<1.0	<1.0	<1.5	50	2.3
	17-Nov-14	<1.0	<1.0	<1.0	<1.5	62	<4.0
	2-May-14	12	<1.0	<1.0	<1.5	72	<4.0
	1-Oct-13	<1.0	<1.0	<1.0	<1.5	61	<4.0
	26-Mar-13	99	1.2	1.7	2.2	220	7.4
	22-Aug-12	54	<1.0	<1.0	<1.5	290	9.6
	21-Feb-12	<1.0	<1.0	<1.0	<1.5	83	<4.0
	26-Dec-06	47	<10	<10	<30	1,000	20
	25-Sep-06	20	<10	16	<30	1,300	<100
	17-May-06	310	<1.0	31	19	550	14
	31-Jan-06	11	<1.0	45	4.1	560	3.0
	3-Nov-05	74	1.1	160	52	590	27.4
28-Jul-05	320	11	710	120	1300	39	
23-Apr-04	Well not sampled due to presence of NAPL						
NMW-3/RNMW-3	10-Oct-19	1.5	<1.0	<1.0	<1.5	30	9.6
	20-Dec-17	2.0	<1.0	<1.0	<1.5	61	10
	17-Jan-17	1.3	<1.0	<1.0	<1.5	64	10
	19-May-15	<1.0	<1.0	<1.0	<1.5	46	<4.0
	17-Nov-14	1.1	<1.0	<1.0	<1.5	63	<4.0
	2-May-14	<1.0	<1.0	<1.0	<1.5	31	<4.0
	1-Oct-13	1.2	<1.0	<1.0	<1.5	83	4.0
	26-Mar-13	4.6	<1.0	<1.0	<1.5	86	5.4
	23-Aug-12	1.2	<1.0	<1.0	<1.5	170	5.5
	21-Feb-12	1.8	<1.0	<1.0	<1.5	120	4.9
	26-Dec-06	6.4	<5.0	<5.0	<15	580	<50
	25-Sep-06	220	<5	64.0	<15	1,400	110
	17-May-06	16	<1.0	7.9	<3.0	370	<10.0
	31-Jan-06	11	<1.0	16	6.4	550	3.3
	3-Nov-05	130	7.7	89	170	1,400	32.4
28-Jul-05	150	23	270	130	1,200	32.3	
23-Apr-04	Well not sampled due to presence of NAPL						
Jan-98	Well not sampled due to presence of NAPL						

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
NMW-4	30-Apr-14	Well plugged and abandoned					
	1-Oct-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	23-Aug-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	22-Feb-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	26-Dec-06	<1.0	<1.0	<1.0	<3.0	<1.5	<10.0
	25-Sep-06	<1.0	<1.0	<1.0	<3.0	<1.5	<10.0
	17-May-06	<1.0	<1.0	<1.0	<3.0	9.7	<10.0
	31-Jan-06	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
	3-Nov-05	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
	29-Jul-05	<1.0	<1.0	<1.0	<1.0	<2.0	<10.0
	23-Apr-04	<1.0	<1.0	<1.0	<1.0	2.7	<10.0
Jun-94	<0.5	<0.5	<0.5	<0.5	<2.5	NA	
NMW-4R	10-Oct-19	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	20-Dec-17	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	17-Jan-17	<1.0	<1.0	<1.0	<1.5	2.0	<4.0
	19-May-15	<1.0	<1.0	<1.0	<1.5	18	<4.0
	17-Nov-14	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	1-May-14	8.0	2.6	<1.0	<1.5	11	<4.0
W-34	1-May-14	Well plugged and abandoned					
	1-Oct-13	Well paved over					
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	22-Aug-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	21-Feb-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	26-Dec-06	Well not sampled					
	25-Sep-06	<1.0	<1.0	<1.0	<3.0	<1.5	<10.0
	17-May-06	Well not sampled					
	31-Jan-06	Well not sampled					
	3-Nov-05	Well not sampled					
	28-Jul-05	<1.0	<1.0	3.7	1.3	<1.0	<10.0
	6-May-04	<1.0	<1.0	6.7	3.4	<1.0	<10.0
Jan-98	1.2	ND	7.6	7.2	<2.5	NA	

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
W-35	10-Oct-19	Could not locate well					
	20-Dec-17	<2.0	<2.0	5.2	<3.0	<2.0	127.9
	17-Jan-17	<1.0	<1.0	16	<1.5	<1.0	525
	19-May-15	<1.0	<1.0	3.6	<1.5	<1.0	45
	17-Nov-14	<1.0	<1.0	15	<1.5	<1.0	98.9
	2-May-14	<1.0	<1.0	7.5	<1.5	<1.0	124
	1-Oct-13	Well paved over ¹					
	25-Mar-13	<1.0	<1.0	32	<1.5	<1.0	399
	22-Aug-12	<1.0	<1.0	6.9	<1.5	<1.0	55.3
	21-Feb-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	26-Dec-06	Well not sampled					
	25-Sep-06	<1.0	<1.0	12	<3.0	<1.5	188
	17-May-06	Well not sampled					
	31-Jan-06	Well not sampled					
	3-Nov-05	Well not sampled					
	28-Jul-05	<5.0	<5.0	250	42	<5.0	400
	6-May-04	<1.0	<1.0	110	96	<1.0	164
Jan-98	ND	190	1700	5,600	ND	NA	
W-36	10-Oct-19	Could not locate well					
	20-Dec-17	<1.0	<1.0	4.1	<1.5	<1.0	70.1
	17-Jan-17	<1.0	<1.0	1.1	<1.5	<1.0	18
	19-May-15	<1.0	<1.0	2.6	<1.5	<1.0	31
	17-Nov-14	<1.0	<1.0	3.8	<1.5	<1.0	17
	2-May-14	<1.0	<1.0	2.4	<1.5	<1.0	12
	1-Oct-13	Well paved over ¹					
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	22-Aug-12	<1.0	<1.0	2.3	<1.5	<1.0	11
	21-Feb-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	26-Dec-06	<1.0	<1.0	15	4.5	<1.5	55.3
	25-Sep-06	<1.0	<1.0	23	3.0	<1.5	81.7
	17-May-06	<1.0	<1.0	3.0	<3.0	<1.5	4.1
	31-Jan-06	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
	3-Nov-05	<1.0	<1.0	2.9	3.6	<1.0	3.3
	28-Jul-05	<1.0	<1.0	55	77	<1.0	76.5
	6-May-04	<10	<10	190	390	<10	230
Jan-98	ND	4.4	39	56	12	NA	

**TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
ATEX 213, ALBUQUERQUE, NEW MEXICO**

Well Number	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Total Naphthalenes
W-37	1-May-14	Well plugged and abandoned					
	1-Oct-13	Well paved over					
	25-Mar-13	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	22-Aug-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	21-Feb-12	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0
	26-Dec-06	Well not sampled					
	25-Sep-06	<1.0	<1.0	12	<3.0	<1.5	<10.0
	17-May-06	Well not sampled					
	31-Jan-06	Well not sampled					
	3-Nov-05	Well not sampled					
	28-Jul-05	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
	6-May-04	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
	Jun-94	<0.5	<0.5	<0.5	<0.5	<2.5	NA
NMWQCC Standards		5	1,000	700	620	100	30

NOTES:

BOLD indicates concentration above the New Mexico Water Quality Control Commission (NMWQCC) standard. All concentrations reported in micrograms per liter ($\mu\text{g/L}$).

¹ In May 2014, well was uncovered and a new vault cover, well seal, and "j-plug" were installed.

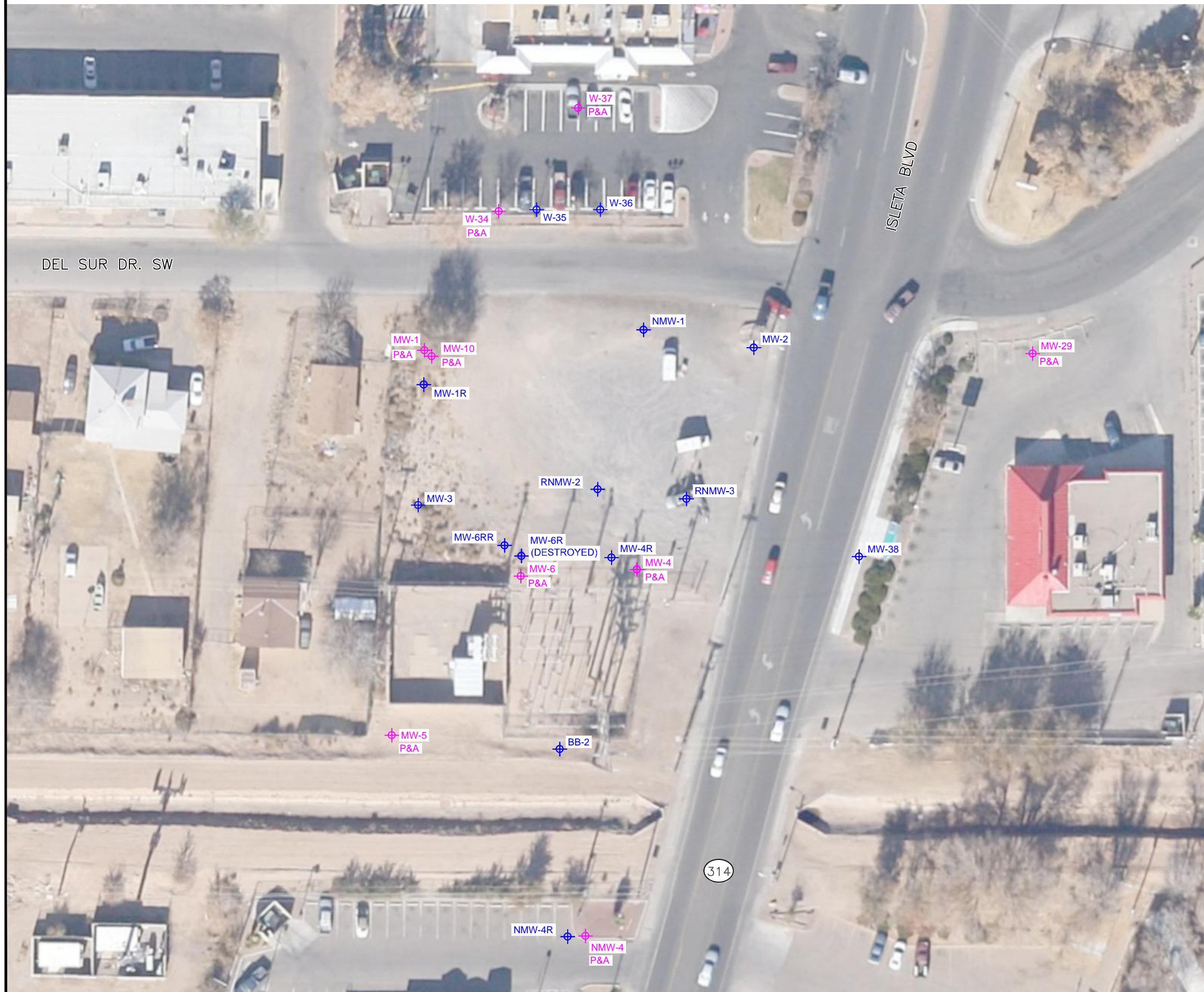
All data reported prior to 2012 from *Groundwater Monitoring Report, ATEX #213 UST Release Site, Albuquerque, New Mexico* (Souder Miller Associates, 2007).

NA = Not analyzed

ND = Not detected

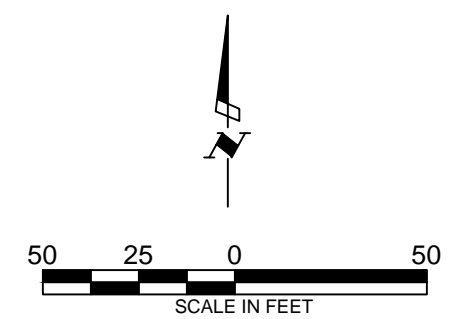
MTBE = Methyl tertiary-butyl ether

FIGURES



LEGEND:

- ⊕ MW-2 MONITORING WELL
- ⊕ MW-6 P&A MONITORING WELL PLUGGED AND ABANDONED



ATEX 213
ALBUQUERQUE, NEW MEXICO

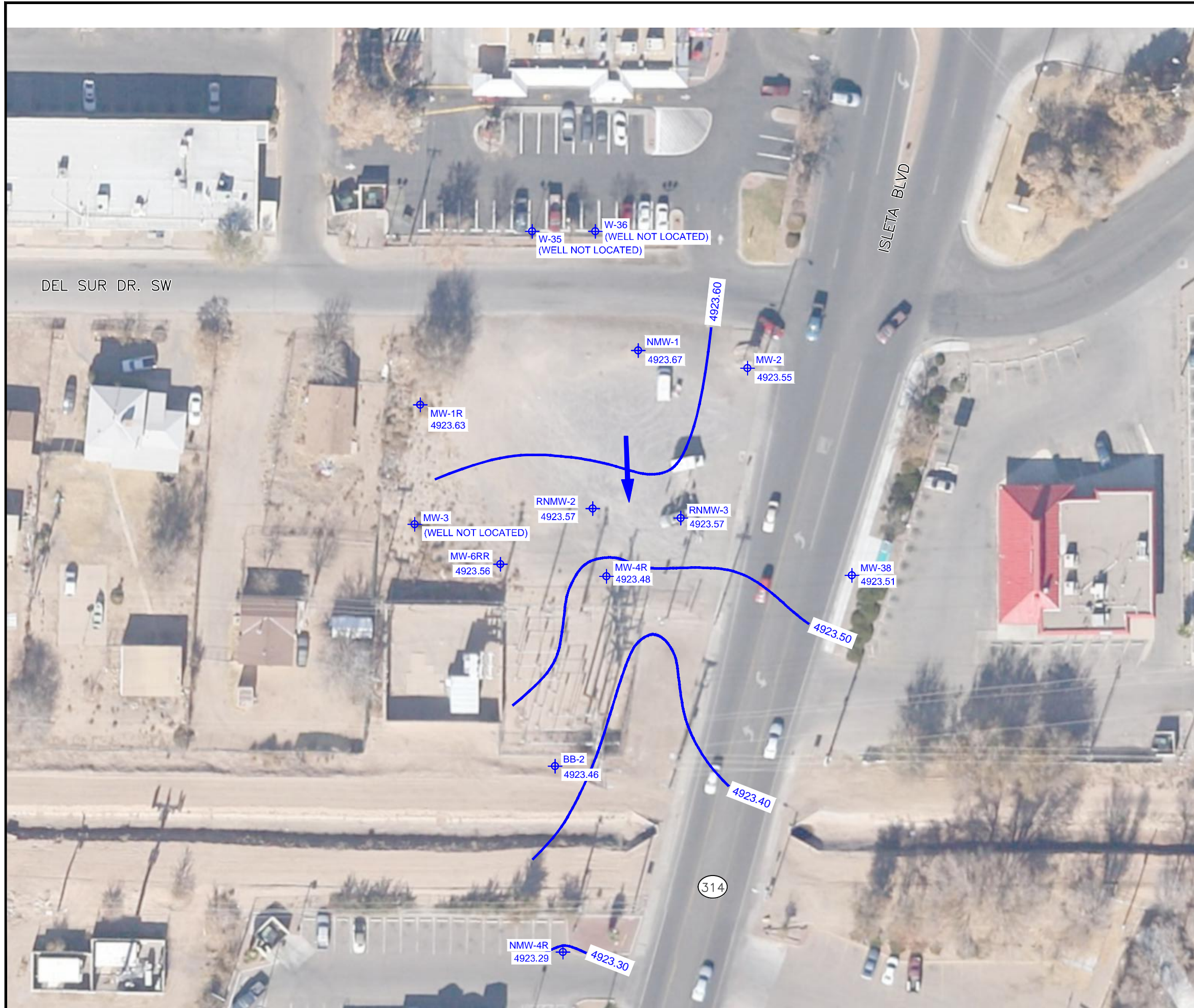
**FIGURE 1
SITE MAP**

PROJECT #: 6289826 PROJECT PHASE: 01 PROJECT MANAGER: LA



320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

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LEGEND:

- ⊕ MW-1R
4923.63
 MONITORING WELL
- 4923.30
 POTENTIOMETRIC SURFACE ELEVATION
CONTOURS IN FEET ABOVE MEAN SEA
LEVEL
- ➔
GROUNDWATER FLOW DIRECTION



ATEX 213
ALBUQUERQUE, NEW MEXICO

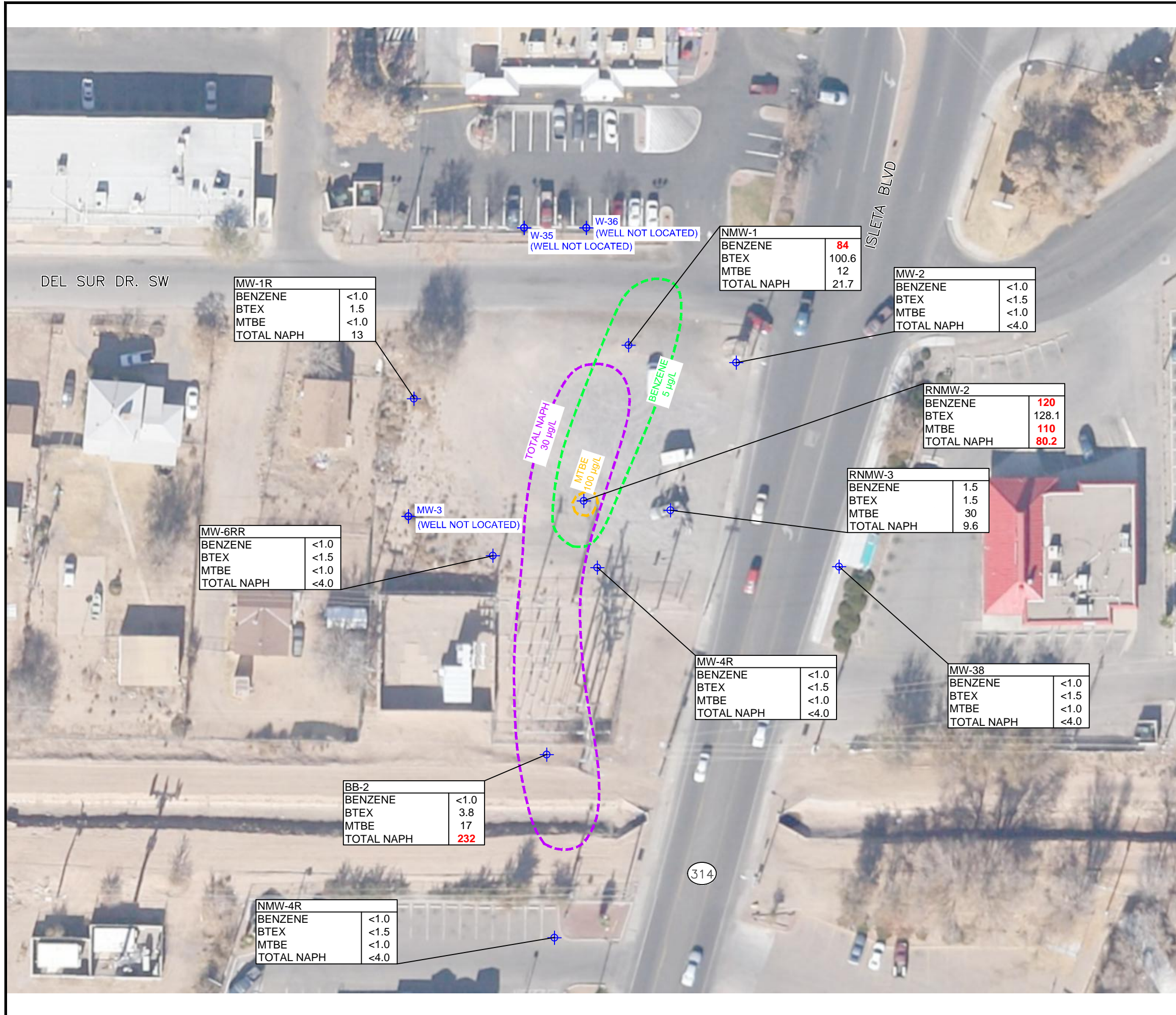
FIGURE 2
POTENTIOMETRIC SURFACE MAP
OCTOBER 2019

PROJECT #:	6289826	PROJECT PHASE:	01	PROJECT MANAGER:	LA
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Albuquerque, NM 87102
Phone: (505) 224-9013



LEGEND:

-  MW-2 MONITORING WELL
-  BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENES
-  MTBE METHYL TERTIARY-BUTYL ETHER
-  TOTAL NAPH TOTAL NAPHTHALENES
-  ESTIMATED EXTENT OF BENZENE (5 µg/L)
-  ESTIMATED EXTENT OF TOTAL NAPHTHALENES (30 µg/L)
-  ESTIMATED EXTENT OF MTBE (100 µg/L)

NOTES:

1. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).
2. **RED** INDICATES CONCENTRATIONS THAT EXCEED NEW MEXICO WATER QUALITY CONTROL COMMISSION (NMWQCC) STANDARDS.



ATEX 213
ALBUQUERQUE, NEW MEXICO

FIGURE 3
DISTRIBUTION OF DISSOLVED-PHASE
HYDROCARBONS
OCTOBER 2019

PROJECT #: 6289826 PROJECT PHASE: 01 PROJECT MANAGER: LA



EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC. PBC

320 Gold Avenue, SW Suite 1300
Albuquerque, NM 87102
Phone: (505) 224-9013

APPENDIX A
WELL SAMPLING FIELD FORMS



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-3 Date gauged 10-10-18
 Site Atex 235 NP 213 Time gauged _____
 Depth to PSH _____ Feet Well diameter _____ Inches
 Depth to water _____ Feet Height of fluid column _____ Feet
 Total depth _____ Feet Volume in well _____ Gallons
 NAPL thickness _____ Feet
 (3 well volumes = _____ gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by N Peterson

Sample method _____

Requested analyses _____

Comments/observations Could not locate

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID W-35 Date gauged 10-10-18
 Site Atex 213 Time gauged _____
 Depth to PSH _____ Feet Well diameter _____ Inches
 Depth to water _____ Feet Height of fluid column _____ Feet
 Total depth _____ Feet Volume in well _____ Gallons
 NAPL thickness _____ Feet

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by N Peterson

Sample method _____

Requested analyses _____

Comments/observations Could not locate

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID W-36 Date gauged 10-10-18
 Site Alex 213 Time gauged _____
 Depth to PSH _____ Feet Well diameter _____ Inches
 Depth to water _____ Feet Height of fluid column _____ Feet
 Total depth _____ Feet Volume in well _____ Gallons
 NAPL thickness _____ Feet
 (3 well volumes = _____ gallons)

After Bailing NAPL

Depth to PSH _____ Feet
 Depth to water _____ Feet
 NAPL thickness _____ Feet
 NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by N Peterson

Sample method _____

Requested analyses _____

Comments/observations Could not locate

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID BB-2 Date gauged 10-10-19
 Site Alex 213 Time gauged 1000
 Depth to PSH — Feet Well diameter 3.44^{NP} 2 Inches
 Depth to water 11.18 Feet Height of fluid column 0.58^{NP} 3.41 Feet
 Total depth 14.59 Feet Volume in well 0.58 Gallons
 NAPL thickness — Feet
 (3 well volumes = 1.74 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1005 / 10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (us/cm)	pH	ORP (mV)	DO (mg/L)
1005	0.25	22.7	873.3	7.20	—	—
1008	0.75	22.6	866.4	7.25	—	—
1010	1.25	22.4	865.0	7.27	—	—
1012	1.50	22.4	864.0	7.28	—	—

Actual purge volume 1.75 gal. Field measurements stabilized within ± 10%? Yes

Time/date sampled 1014 / 10-10-19 Purged/sampled by N Peterson

Sample method New bailer & twine

Requested analyses 8260

Comments/observations This well head is in a pipe sticking out of the ground.

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID NMW-1 Date gauged 10-10-19
 Site Atex 213 Time gauged 1350
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 8.96 Feet Height of fluid column 6.24 Feet
 Total depth 15.20 Feet Volume in well 3.18 ^{NP} Gallons
 NAPL thickness — Feet
 (3 well volumes = 3.18 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1356/10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1356	0.25	25.8	878.3	7.02	—	—
1358	1.00	26.0	898.5	7.00	—	—
1400	2.00	25.9	898.0	6.99	—	—
1403	3.00	25.5	888.9	7.03	—	—

Actual purge volume 3.25 gal. Field measurements stabilized within ± 10%? Yes
 Time/date sampled 1405/10-10-19 Purged/sampled by N Peterson
 Sample method New bailer & twine
 Requested analyses 8260
 Comments/observations Missing one 9/16" bolt

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID NMW-4R Date gauged 10-10-19
 Site Atex 213 Time gauged 0751
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 9.24 Feet Height of fluid column 10.68 Feet
 Total depth 19.92 Feet Volume in well 1.82 Gallons
 NAPL thickness — Feet
 (3 well volumes = 5.45 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 0758 / 10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0758	0.50	21.2	578.0	5.99	—	—
0803	1.75	22.3	534.6	6.49	—	—
0808	3.75	22.1	512.0	6.70	—	—
0812	5.25	22.6	528.6	6.82	—	—

Actual purge volume 5.50 gal. Field measurements stabilized within ± 10%? Yes
 Time/date sampled 0815 / 10-10-19 Purged/sampled by N Peterson
 Sample method New bailer & twine
 Requested analyses 8260
 Comments/observations _____

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID RN MW-2 Date gauged 10-10-19
 Site Atex 213 Time gauged 1108
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 9.88 Feet Height of fluid column 5.59 Feet
 Total depth 15.47 Feet Volume in well 0.95 Gallons
 NAPL thickness — Feet
 (3 well volumes = 2.85 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1118/10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1118	0.25	25.0	1069	7.06	—	—
1121	1.25	24.6	1051	7.10	—	—
1123	2.00	24.7	1038	7.10	—	—
1125	2.75	24.5	1015	7.13	—	—

Actual purge volume 3.0 gal. Field measurements stabilized within ± 10%? Yes
 Time/date sampled 1128/10-10-19 Purged/sampled by N Peterson
 Sample method New bailer & twine
 Requested analyses 8260
 Comments/observations Strong odor from first bailer of purge water

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID RNMW-3 Date gauged 10-10-19
 Site Atex 213 Time gauged 1257
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 9.65 Feet Height of fluid column 6.4 Feet
 Total depth 16.05 Feet Volume in well 1.09 Gallons
 NAPL thickness — Feet
 (3 well volumes = 3.26 gallons)

After Bailing NAPL	
Depth to PSH	_____ Feet
Depth to water	_____ Feet
NAPL thickness	_____ Feet
NAPL Recovered	_____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1303/10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1303	0.25	25.6	1187	7.31	—	—
1305	1.25	25.1	1160	7.31	—	—
1307	2.00	25.0	1033	7.32	—	—
1310	3.00	24.9	1038	7.32	—	—

Actual purge volume 3.50 gal. Field measurements stabilized within ± 10%? Yes
 Time/date sampled 1313/10-10-19 Purged/sampled by N Peterson
 Sample method New bailer & twine
 Requested analyses 8260
 Comments/observations _____

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-2 Date gauged 10-10-19
 Site Atex 213 Time gauged 1030
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 11.17 Feet Height of fluid column 6.67 Feet
 Total depth 17.84 Feet Volume in well 1.13 Gallons
 NAPL thickness — Feet
 (3 well volumes = 3.40 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1042/10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1042	0.25	24.1	1070	6.99	—	—
1046	1.50	24.1	1013	7.18	—	—
1049	2.50	24.1	960.6	7.20	—	—
1051	3.25	24.1	959.5	7.19	—	—

Actual purge volume 3.50 gal. Field measurements stabilized within ± 10%? YES
 Time/date sampled 1053/10-10-19 Purged/sampled by N Peterson
 Sample method New bailer & twine
 Requested analyses 8260
 Comments/observations Missing J-plug. Well head is in pipe sticking out of the ground.

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.68 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-4R Date gauged 10-10-19
 Site Atex 213 Time gauged 0920
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 9.94 Feet Height of fluid column 11.14 Feet
 Total depth 21.07 Feet Volume in well 1.90 Gallons
 NAPL thickness — Feet
 (3 well volumes = 5.69 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 0927/10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0927	0.25	22.8	765.6	7.21	—	—
0930	1.75	23.1	775.5	7.44	—	—
0935	3.50	23.1	783.5	7.47	—	—
0940	5.50	22.6	778.6	7.48	—	—

Actual purge volume 5.75 gal. Field measurements stabilized within ± 10%? Yes

Time/date sampled 0942/10-10-19 Purged/sampled by N Peterson

Sample method New bailer & twine

Requested analyses 8260

Comments/observations _____

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-6RR* Date gauged 10-10-19
 Site Atex 213 Time gauged 1152
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 10.34 Feet Height of fluid column 9.68 Feet
 Total depth 20.02 Feet Volume in well 1.65 Gallons
 NAPL thickness — Feet
 (3 well volumes = 4.94 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1159/10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1159	0.25	22.5	763.0	7.62	—	—
1202	1.50	23.0	770.1	7.35	—	—
1206	3.50	23.2	781.5	7.35	—	—
1210	4.75	23.3	783.0	7.51	—	—

Actual purge volume 5.0 gal. Field measurements stabilized within ± 10%? Yes
 Time/date sampled 1212/10-10-19 Purged/sampled by N Peterson
 Sample method New bailer & twine
 Requested analyses 8260
 Comments/observations Well is labeled MW-6RR on the concrete pad

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-38 Date gauged 10-10-19
 Site Atex 213 Time gauged 0836
 Depth to PSH — Feet Well diameter 2 Inches
 Depth to water 8.36 Feet Height of fluid column 3.8 Feet
 Total depth 12.16 Feet Volume in well 0.65 Gallons
 NAPL thickness — Feet
 (3 well volumes = 1.94 gallons)

After Bailing NAPL

Depth to PSH _____ Feet

Depth to water _____ Feet

NAPL thickness _____ Feet

NAPL Recovered _____ Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 0842/10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
0842	0.25	22.0	869.6	6.87	—	—
0845	1.00	23.3	904.6	7.03	—	—
0847	1.50	23.5	889.7	7.11	—	—
0848	1.75	23.4	896.6	7.13	—	—

Actual purge volume 2.00 gal. Field measurements stabilized within ± 10%? Yes

Time/date sampled 0852/10-10-19 Purged/sampled by N Peterson

Sample method New bailer & twine

Requested analyses 8260

Comments/observations Well doesn't have a j-plug but does have a white cap. No bolts on well vault lid. No bolt receptacles.

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft



MONITORING WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID MW-1R Date gauged 10-10-19
 Site Alex 213 Time gauged 1441
 Depth to PSH Feet Well diameter 2 Inches
 Depth to water 8.45 Feet Height of fluid column 6.33 Feet
 Total depth 14.78 Feet Volume in well 1.08 Gallons
 NAPL thickness Feet
 (3 well volumes = 3.23 gallons)

After Bailing NAPL

Depth to PSH Feet

Depth to water Feet

NAPL thickness Feet

NAPL Recovered Gallons

GROUNDWATER SAMPLING DATA

Time/date purged 1524/10-10-19 Purge Method Hand bail

Time	Purge Volume (gal)	Temp (°C)	SpC (us/cm)	pH	ORP (mV)	DO (mg/L)
1524	0.25	24.2	996.2	7.35 ^{7.10 MP}	—	—
1527	1.00	24.1	1034	7.46	—	—
1529	2.00	23.8	1078	7.43	—	—
1531	3.00	23.4	1041	7.42	—	—

Actual purge volume 3.25 gal. Field measurements stabilized within ± 10%? Yes

Time/date sampled 1533/10-10-19 Purged/sampled by N Peterson

Sample method New bailer & twine

Requested analyses 8260

Comments/observations Work plan says well depth is 19' but that well is obstructed w/ roots. Roots were found at ~9' depth and

Well Casing Volumes
 2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

successfully removed. Roots were stained black. Roots were again found at ~14' depth but unable to be removed. Proceeded w/ TD = 14.78'

Atex 213 - October 10, 2019

Nicole Peterson

0700 Leaving office in Dodge. Starting
mileage is 160,076

0734 Arrived at site, well NMAW-4R

0745 Performed bump test on ultrameter.

pH 4.0 solution read 4.14 ✓

cond. 3900 μ S solution read 3964 μ S ✓

1555 Done sampling, leaving site

~~Nicole Peterson~~

APPENDIX B
ANALYTICAL LABORATORY REPORT



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 16, 2019

Mike McVey

EA Engineering, Science and Technology
320 Gold Ave SW Suite 1210
Albuquerque, NM 87102
TEL: (505) 224-9013
FAX

RE: Atex 213

OrderNo.: 1910675

Dear Mike McVey:

Hall Environmental Analysis Laboratory received 11 sample(s) on 10/11/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: BB-2

Project: Atex 213

Collection Date: 10/10/2019 10:14:00 AM

Lab ID: 1910675-001

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Toluene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Ethylbenzene	3.8	1.0		µg/L	1	10/15/2019 4:36:58 AM
Methyl tert-butyl ether (MTBE)	17	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Naphthalene	96	2.0		µg/L	1	10/15/2019 4:36:58 AM
1-Methylnaphthalene	75	4.0		µg/L	1	10/15/2019 4:36:58 AM
2-Methylnaphthalene	61	4.0		µg/L	1	10/15/2019 4:36:58 AM
Acetone	ND	10		µg/L	1	10/15/2019 4:36:58 AM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Bromoform	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 4:36:58 AM
2-Butanone	ND	10		µg/L	1	10/15/2019 4:36:58 AM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 4:36:58 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 4:36:58 AM
Chloroform	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 4:36:58 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 4:36:58 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 4:36:58 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: BB-2

Project: Atex 213

Collection Date: 10/10/2019 10:14:00 AM

Lab ID: 1910675-001

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
2-Hexanone	ND	10		µg/L	1	10/15/2019 4:36:58 AM
Isopropylbenzene	52	1.0		µg/L	1	10/15/2019 4:36:58 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 4:36:58 AM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 4:36:58 AM
n-Butylbenzene	21	3.0		µg/L	1	10/15/2019 4:36:58 AM
n-Propylbenzene	160	10		µg/L	10	10/15/2019 5:31:39 PM
sec-Butylbenzene	17	1.0		µg/L	1	10/15/2019 4:36:58 AM
Styrene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 4:36:58 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 4:36:58 AM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 4:36:58 AM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 4:36:58 AM
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%Rec	1	10/15/2019 4:36:58 AM
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	10/15/2019 4:36:58 AM
Surr: Dibromofluoromethane	93.8	70-130		%Rec	1	10/15/2019 4:36:58 AM
Surr: Toluene-d8	104	70-130		%Rec	1	10/15/2019 4:36:58 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: NMW-1

Project: Atex 213

Collection Date: 10/10/2019 2:05:00 PM

Lab ID: 1910675-002

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	84	1.0		µg/L	1	10/15/2019 5:06:36 AM
Toluene	1.0	1.0		µg/L	1	10/15/2019 5:06:36 AM
Ethylbenzene	3.6	1.0		µg/L	1	10/15/2019 5:06:36 AM
Methyl tert-butyl ether (MTBE)	12	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2,4-Trimethylbenzene	6.1	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,3,5-Trimethylbenzene	2.2	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Naphthalene	15	2.0		µg/L	1	10/15/2019 5:06:36 AM
1-Methylnaphthalene	6.7	4.0		µg/L	1	10/15/2019 5:06:36 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 5:06:36 AM
Acetone	ND	10		µg/L	1	10/15/2019 5:06:36 AM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Bromoform	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 5:06:36 AM
2-Butanone	ND	10		µg/L	1	10/15/2019 5:06:36 AM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 5:06:36 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 5:06:36 AM
Chloroform	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 5:06:36 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 5:06:36 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 5:06:36 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: NMW-1

Project: Atex 213

Collection Date: 10/10/2019 2:05:00 PM

Lab ID: 1910675-002

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
2-Hexanone	ND	10		µg/L	1	10/15/2019 5:06:36 AM
Isopropylbenzene	7.1	1.0		µg/L	1	10/15/2019 5:06:36 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 5:06:36 AM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 5:06:36 AM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 5:06:36 AM
n-Propylbenzene	18	1.0		µg/L	1	10/15/2019 5:06:36 AM
sec-Butylbenzene	2.4	1.0		µg/L	1	10/15/2019 5:06:36 AM
Styrene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 5:06:36 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 5:06:36 AM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 5:06:36 AM
Xylenes, Total	13	1.5		µg/L	1	10/15/2019 5:06:36 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	10/15/2019 5:06:36 AM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	10/15/2019 5:06:36 AM
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	10/15/2019 5:06:36 AM
Surr: Toluene-d8	106	70-130		%Rec	1	10/15/2019 5:06:36 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: NMW-4R

Project: Atex 213

Collection Date: 10/10/2019 8:15:00 AM

Lab ID: 1910675-003

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Toluene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Ethylbenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Naphthalene	ND	2.0		µg/L	1	10/15/2019 5:35:24 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 5:35:24 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 5:35:24 AM
Acetone	ND	10		µg/L	1	10/15/2019 5:35:24 AM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Bromoform	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 5:35:24 AM
2-Butanone	ND	10		µg/L	1	10/15/2019 5:35:24 AM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 5:35:24 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 5:35:24 AM
Chloroform	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 5:35:24 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 5:35:24 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 5:35:24 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: NMW-4R

Project: Atex 213

Collection Date: 10/10/2019 8:15:00 AM

Lab ID: 1910675-003

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
2-Hexanone	ND	10		µg/L	1	10/15/2019 5:35:24 AM
Isopropylbenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 5:35:24 AM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 5:35:24 AM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 5:35:24 AM
n-Propylbenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
sec-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Styrene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 5:35:24 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 5:35:24 AM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 5:35:24 AM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 5:35:24 AM
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	10/15/2019 5:35:24 AM
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	10/15/2019 5:35:24 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	10/15/2019 5:35:24 AM
Surr: Toluene-d8	104	70-130		%Rec	1	10/15/2019 5:35:24 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: RNMW-2

Project: Atex 213

Collection Date: 10/10/2019 11:28:00 AM

Lab ID: 1910675-004

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	120	10		µg/L	10	10/15/2019 6:00:49 PM
Toluene	1.9	1.0		µg/L	1	10/15/2019 6:04:37 AM
Ethylbenzene	3.4	1.0		µg/L	1	10/15/2019 6:04:37 AM
Methyl tert-butyl ether (MTBE)	110	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Naphthalene	65	2.0		µg/L	1	10/15/2019 6:04:37 AM
1-Methylnaphthalene	8.7	4.0		µg/L	1	10/15/2019 6:04:37 AM
2-Methylnaphthalene	6.5	4.0		µg/L	1	10/15/2019 6:04:37 AM
Acetone	ND	10		µg/L	1	10/15/2019 6:04:37 AM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Bromoform	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 6:04:37 AM
2-Butanone	ND	10		µg/L	1	10/15/2019 6:04:37 AM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 6:04:37 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 6:04:37 AM
Chloroform	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 6:04:37 AM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 6:04:37 AM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 6:04:37 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: RNMW-2

Project: Atex 213

Collection Date: 10/10/2019 11:28:00 AM

Lab ID: 1910675-004

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
2-Hexanone	ND	10		µg/L	1	10/15/2019 6:04:37 AM
Isopropylbenzene	23	1.0		µg/L	1	10/15/2019 6:04:37 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 6:04:37 AM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 6:04:37 AM
n-Butylbenzene	4.0	3.0		µg/L	1	10/15/2019 6:04:37 AM
n-Propylbenzene	52	1.0		µg/L	1	10/15/2019 6:04:37 AM
sec-Butylbenzene	3.6	1.0		µg/L	1	10/15/2019 6:04:37 AM
Styrene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 6:04:37 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 6:04:37 AM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 6:04:37 AM
Xylenes, Total	2.8	1.5		µg/L	1	10/15/2019 6:04:37 AM
Surr: 1,2-Dichloroethane-d4	89.3	70-130		%Rec	1	10/15/2019 6:04:37 AM
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	10/15/2019 6:04:37 AM
Surr: Dibromofluoromethane	90.9	70-130		%Rec	1	10/15/2019 6:04:37 AM
Surr: Toluene-d8	107	70-130		%Rec	1	10/15/2019 6:04:37 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: RNMW-3

Project: Atex 213

Collection Date: 10/10/2019 1:13:00 PM

Lab ID: 1910675-005

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	1.5	1.0		µg/L	1	10/15/2019 6:29:42 PM
Toluene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Ethylbenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Methyl tert-butyl ether (MTBE)	30	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Naphthalene	9.6	2.0		µg/L	1	10/15/2019 6:29:42 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 6:29:42 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 6:29:42 PM
Acetone	ND	10		µg/L	1	10/15/2019 6:29:42 PM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Bromoform	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 6:29:42 PM
2-Butanone	ND	10		µg/L	1	10/15/2019 6:29:42 PM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 6:29:42 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 6:29:42 PM
Chloroform	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 6:29:42 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 6:29:42 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 6:29:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: RNMW-3

Project: Atex 213

Collection Date: 10/10/2019 1:13:00 PM

Lab ID: 1910675-005

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
2-Hexanone	ND	10		µg/L	1	10/15/2019 6:29:42 PM
Isopropylbenzene	7.2	1.0		µg/L	1	10/15/2019 6:29:42 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 6:29:42 PM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 6:29:42 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 6:29:42 PM
n-Propylbenzene	14	1.0		µg/L	1	10/15/2019 6:29:42 PM
sec-Butylbenzene	1.9	1.0		µg/L	1	10/15/2019 6:29:42 PM
Styrene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 6:29:42 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 6:29:42 PM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 6:29:42 PM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 6:29:42 PM
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%Rec	1	10/15/2019 6:29:42 PM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	10/15/2019 6:29:42 PM
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	10/15/2019 6:29:42 PM
Surr: Toluene-d8	104	70-130		%Rec	1	10/15/2019 6:29:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-2

Project: Atex 213

Collection Date: 10/10/2019 10:53:00 AM

Lab ID: 1910675-006

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Toluene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Ethylbenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Naphthalene	ND	2.0		µg/L	1	10/15/2019 6:59:09 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 6:59:09 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 6:59:09 PM
Acetone	ND	10		µg/L	1	10/15/2019 6:59:09 PM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Bromoform	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 6:59:09 PM
2-Butanone	ND	10		µg/L	1	10/15/2019 6:59:09 PM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 6:59:09 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 6:59:09 PM
Chloroform	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 6:59:09 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 6:59:09 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 6:59:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-2

Project: Atex 213

Collection Date: 10/10/2019 10:53:00 AM

Lab ID: 1910675-006

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
2-Hexanone	ND	10		µg/L	1	10/15/2019 6:59:09 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 6:59:09 PM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 6:59:09 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 6:59:09 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Styrene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 6:59:09 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 6:59:09 PM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 6:59:09 PM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 6:59:09 PM
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	10/15/2019 6:59:09 PM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	10/15/2019 6:59:09 PM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	10/15/2019 6:59:09 PM
Surr: Toluene-d8	103	70-130		%Rec	1	10/15/2019 6:59:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-4R

Project: Atex 213

Collection Date: 10/10/2019 9:42:00 AM

Lab ID: 1910675-007

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Toluene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Ethylbenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Naphthalene	ND	2.0		µg/L	1	10/15/2019 7:27:59 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 7:27:59 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 7:27:59 PM
Acetone	ND	10		µg/L	1	10/15/2019 7:27:59 PM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Bromoform	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 7:27:59 PM
2-Butanone	ND	10		µg/L	1	10/15/2019 7:27:59 PM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 7:27:59 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 7:27:59 PM
Chloroform	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 7:27:59 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 7:27:59 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 7:27:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-4R

Project: Atex 213

Collection Date: 10/10/2019 9:42:00 AM

Lab ID: 1910675-007

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
2-Hexanone	ND	10		µg/L	1	10/15/2019 7:27:59 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 7:27:59 PM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 7:27:59 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 7:27:59 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Styrene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 7:27:59 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 7:27:59 PM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 7:27:59 PM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 7:27:59 PM
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%Rec	1	10/15/2019 7:27:59 PM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	10/15/2019 7:27:59 PM
Surr: Dibromofluoromethane	99.1	70-130		%Rec	1	10/15/2019 7:27:59 PM
Surr: Toluene-d8	104	70-130		%Rec	1	10/15/2019 7:27:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-6RR*

Project: Atex 213

Collection Date: 10/10/2019 12:12:00 PM

Lab ID: 1910675-008

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Toluene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Ethylbenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Naphthalene	ND	2.0		µg/L	1	10/15/2019 7:56:45 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 7:56:45 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 7:56:45 PM
Acetone	ND	10		µg/L	1	10/15/2019 7:56:45 PM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Bromoform	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 7:56:45 PM
2-Butanone	ND	10		µg/L	1	10/15/2019 7:56:45 PM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 7:56:45 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 7:56:45 PM
Chloroform	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 7:56:45 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 7:56:45 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 7:56:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-6RR*

Project: Atex 213

Collection Date: 10/10/2019 12:12:00 PM

Lab ID: 1910675-008

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
2-Hexanone	ND	10		µg/L	1	10/15/2019 7:56:45 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 7:56:45 PM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 7:56:45 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 7:56:45 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Styrene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 7:56:45 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 7:56:45 PM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 7:56:45 PM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 7:56:45 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	10/15/2019 7:56:45 PM
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	10/15/2019 7:56:45 PM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	10/15/2019 7:56:45 PM
Surr: Toluene-d8	103	70-130		%Rec	1	10/15/2019 7:56:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-38

Project: Atex 213

Collection Date: 10/10/2019 8:52:00 AM

Lab ID: 1910675-009

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Toluene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Ethylbenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Naphthalene	ND	2.0		µg/L	1	10/15/2019 8:26:10 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 8:26:10 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 8:26:10 PM
Acetone	ND	10		µg/L	1	10/15/2019 8:26:10 PM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Bromoform	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 8:26:10 PM
2-Butanone	ND	10		µg/L	1	10/15/2019 8:26:10 PM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 8:26:10 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 8:26:10 PM
Chloroform	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 8:26:10 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 8:26:10 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 8:26:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-38

Project: Atex 213

Collection Date: 10/10/2019 8:52:00 AM

Lab ID: 1910675-009

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
2-Hexanone	ND	10		µg/L	1	10/15/2019 8:26:10 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 8:26:10 PM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 8:26:10 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 8:26:10 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Styrene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 8:26:10 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 8:26:10 PM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 8:26:10 PM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 8:26:10 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	10/15/2019 8:26:10 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	10/15/2019 8:26:10 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	10/15/2019 8:26:10 PM
Surr: Toluene-d8	101	70-130		%Rec	1	10/15/2019 8:26:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-1R

Project: Atex 213

Collection Date: 10/10/2019 3:33:00 PM

Lab ID: 1910675-010

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Toluene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Ethylbenzene	1.5	1.0		µg/L	1	10/15/2019 8:54:56 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Naphthalene	13	2.0		µg/L	1	10/15/2019 8:54:56 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 8:54:56 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 8:54:56 PM
Acetone	ND	10		µg/L	1	10/15/2019 8:54:56 PM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Bromoform	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 8:54:56 PM
2-Butanone	ND	10		µg/L	1	10/15/2019 8:54:56 PM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 8:54:56 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 8:54:56 PM
Chloroform	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 8:54:56 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 8:54:56 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 8:54:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: MW-1R

Project: Atex 213

Collection Date: 10/10/2019 3:33:00 PM

Lab ID: 1910675-010

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
2-Hexanone	ND	10		µg/L	1	10/15/2019 8:54:56 PM
Isopropylbenzene	7.0	1.0		µg/L	1	10/15/2019 8:54:56 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 8:54:56 PM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 8:54:56 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 8:54:56 PM
n-Propylbenzene	19	1.0		µg/L	1	10/15/2019 8:54:56 PM
sec-Butylbenzene	1.9	1.0		µg/L	1	10/15/2019 8:54:56 PM
Styrene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 8:54:56 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 8:54:56 PM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 8:54:56 PM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 8:54:56 PM
Surr: 1,2-Dichloroethane-d4	95.9	70-130		%Rec	1	10/15/2019 8:54:56 PM
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	10/15/2019 8:54:56 PM
Surr: Dibromofluoromethane	95.4	70-130		%Rec	1	10/15/2019 8:54:56 PM
Surr: Toluene-d8	101	70-130		%Rec	1	10/15/2019 8:54:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: Trip Blank

Project: Atex 213

Collection Date:

Lab ID: 1910675-011

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Toluene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Ethylbenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Naphthalene	ND	2.0		µg/L	1	10/15/2019 9:24:05 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 9:24:05 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/15/2019 9:24:05 PM
Acetone	ND	10		µg/L	1	10/15/2019 9:24:05 PM
Bromobenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Bromoform	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Bromomethane	ND	3.0		µg/L	1	10/15/2019 9:24:05 PM
2-Butanone	ND	10		µg/L	1	10/15/2019 9:24:05 PM
Carbon disulfide	ND	10		µg/L	1	10/15/2019 9:24:05 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Chlorobenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Chloroethane	ND	2.0		µg/L	1	10/15/2019 9:24:05 PM
Chloroform	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Chloromethane	ND	3.0		µg/L	1	10/15/2019 9:24:05 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/15/2019 9:24:05 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Dibromomethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/15/2019 9:24:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1910675

Date Reported: 10/16/2019

CLIENT: EA Engineering, Science and Technology

Client Sample ID: Trip Blank

Project: Atex 213

Collection Date:

Lab ID: 1910675-011

Matrix: AQUEOUS

Received Date: 10/11/2019 8:13:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
1,1-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
2-Hexanone	ND	10		µg/L	1	10/15/2019 9:24:05 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/15/2019 9:24:05 PM
Methylene Chloride	ND	3.0		µg/L	1	10/15/2019 9:24:05 PM
n-Butylbenzene	ND	3.0		µg/L	1	10/15/2019 9:24:05 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Styrene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/15/2019 9:24:05 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/15/2019 9:24:05 PM
Vinyl chloride	ND	1.0		µg/L	1	10/15/2019 9:24:05 PM
Xylenes, Total	ND	1.5		µg/L	1	10/15/2019 9:24:05 PM
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	10/15/2019 9:24:05 PM
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	10/15/2019 9:24:05 PM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/15/2019 9:24:05 PM
Surr: Toluene-d8	101	70-130		%Rec	1	10/15/2019 9:24:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910675

16-Oct-19

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: W63641	RunNo: 63641								
Prep Date:	Analysis Date: 10/14/2019	SeqNo: 2175847	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910675

16-Oct-19

Client: EA Engineering, Science and Technology

Project: Atex 213

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: rb	SampType: MBLK		TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: W63641		RunNo: 63641							
Prep Date:	Analysis Date: 10/14/2019		SeqNo: 2175847		Units: µg/L					
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.5	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.0	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.5	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: W63641		RunNo: 63641							
Prep Date:	Analysis Date: 10/14/2019		SeqNo: 2175848		Units: µg/L					
Benzene	18	1.0	20.00	0	92.4	70	130			
Toluene	19	1.0	20.00	0	94.7	70	130			
Chlorobenzene	19	1.0	20.00	0	94.5	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910675

16-Oct-19

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: W63641	RunNo: 63641								
Prep Date:	Analysis Date: 10/14/2019	SeqNo: 2175848	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	15	1.0	20.00	0	75.9	70	130			
Trichloroethene (TCE)	16	1.0	20.00	0	81.6	70	130			
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.3	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.7	70	130			
Surr: Dibromofluoromethane	8.9		10.00		89.0	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R63710	RunNo: 63710								
Prep Date:	Analysis Date: 10/15/2019	SeqNo: 2177199	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910675

16-Oct-19

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R63710	RunNo: 63710								
Prep Date:	Analysis Date: 10/15/2019	SeqNo: 2177199	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		105	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910675

16-Oct-19

Client: EA Engineering, Science and Technology

Project: Atex 213

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES								
Client ID: PBW	Batch ID: R63710	RunNo: 63710								
Prep Date:	Analysis Date: 10/15/2019	SeqNo: 2177199	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	8.9		10.00		89.2	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch ID: R63710	RunNo: 63710								
Prep Date:	Analysis Date: 10/15/2019	SeqNo: 2177200	Units: µg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	70	130			
Toluene	19	1.0	20.00	0	93.0	70	130			
Chlorobenzene	18	1.0	20.00	0	89.0	70	130			
1,1-Dichloroethene	16	1.0	20.00	0	79.4	70	130			
Trichloroethene (TCE)	16	1.0	20.00	0	82.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.1	70	130			
Surr: 4-Bromofluorobenzene	9.0		10.00		90.0	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.8	70	130			
Surr: Toluene-d8	9.9		10.00		99.0	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

Sample Log-In Check List

Client Name: EA Engineering Alb Work Order Number: 1910675 RcptNo: 1

Received By: Anne Thorne 10/11/2019 8:13:00 AM *Anne Thorne*
 Completed By: Anne Thorne 10/11/2019 9:32:35 AM *Anne Thorne*
 Reviewed By: *DM [signature]* *10/11/19*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes No NA
 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 5. Sample(s) in proper container(s)? Yes No
 6. Sufficient sample volume for indicated test(s)? Yes No
 7. Are samples (except VOA and ONG) properly preserved? Yes No
 8. Was preservative added to bottles? Yes No NA
 9. VOA vials have zero headspace? Yes No No VOA Vials
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes No
 13. Is it clear what analyses were requested? Yes No
 14. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: DAD 10/11/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good				

Chain-of-Custody Record

Client: EA Engineering

Mailing Address: 320 Gold Ave. SW

ABQ

Phone #: 505-369-3149

email or Fax#: mmcvey@east.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: AZ Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time:
 Standard Rush

Project Name:
Atex 213

Project #:
19718

Project Manager:
Michael McVey

Sampler: Nicole Peterson
 On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 1-40.2-1.6 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No
10-10-19	1014	A _g	BB-2	3 VOA	HgCl ₂	1910015
10-10-19	1405	A _g	NMW-1	3 VOA	HgCl ₂	201
10-10-19	0815	A _g	NMW-4R	3 VOA	HgCl ₂	202
10-10-19	1128	A _g	RNMW-2	3 VOA	HgCl ₂	203
10-10-19	1313	A _g	RNMW-3	3 VOA	HgCl ₂	204
10-10-19	1053	A _g	MW-2	3 VOA	HgCl ₂	205
10-10-19	0942	A _g	MW-4R	3 VOA	HgCl ₂	206
10-10-19	1212	A _g	MW-6RR*	3 VOA	HgCl ₂	207
10-10-19	0852	A _g	MW-3B	3 VOA	HgCl ₂	208
10-10-19	1533	A _g	MW-1R	3 VOA	HgCl ₂	209
			Trip Blank			210
Date:	Time:	Relinquished by:	Via:	Date	Time	Remarks:
10-11-19	0813	<u>Nicole Peterson</u>		10/11/19		
Date:	Time:	Relinquished by:	Via:	Date	Time	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

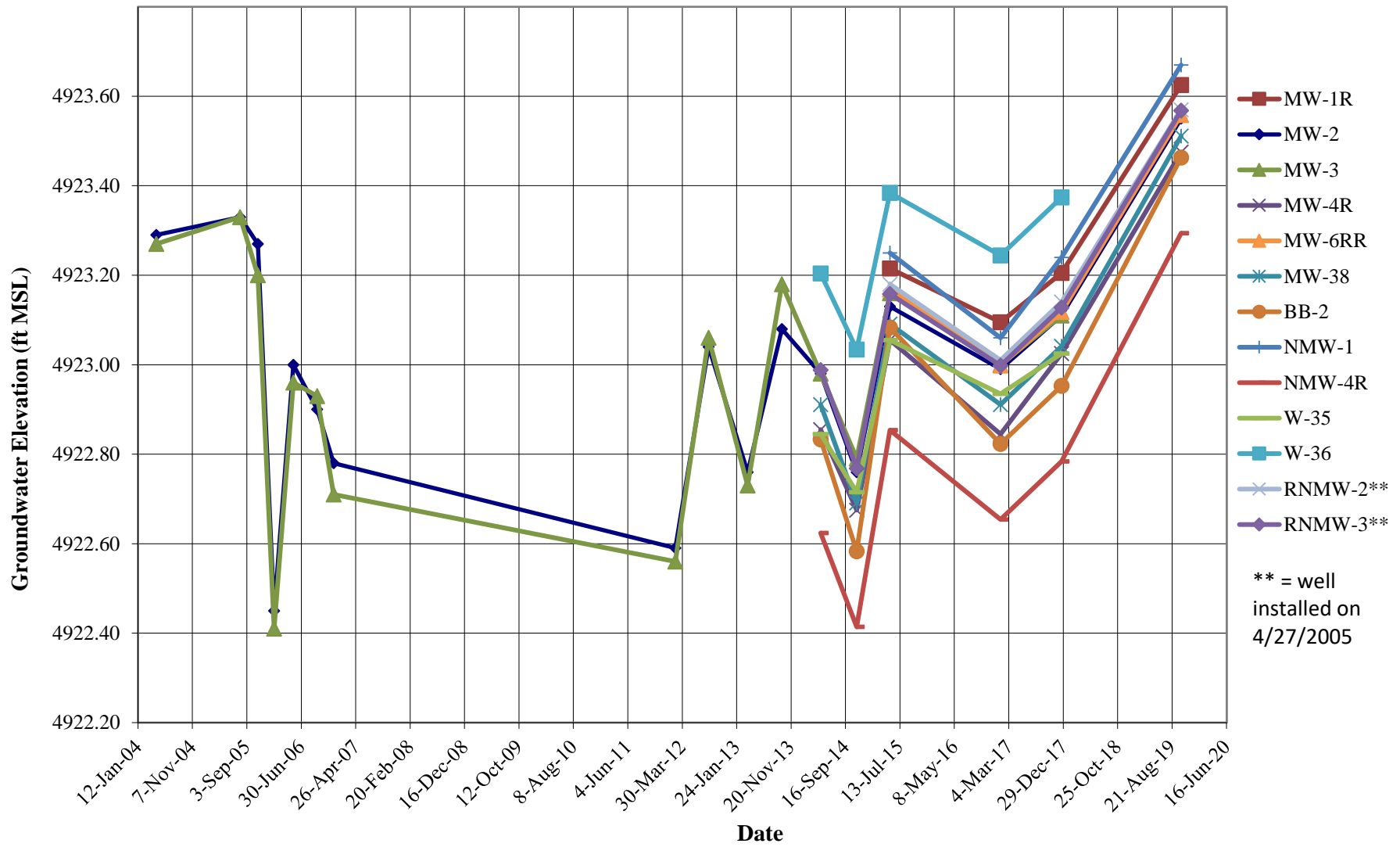
Tel. 505-345-3975 Fax 505-345-4107

BTEX / MTBE / TMB's (8021)	TFH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
							X		
							X		
							X		
							X		
							X		
							X		
							X		
							X		
							X		
							X		

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

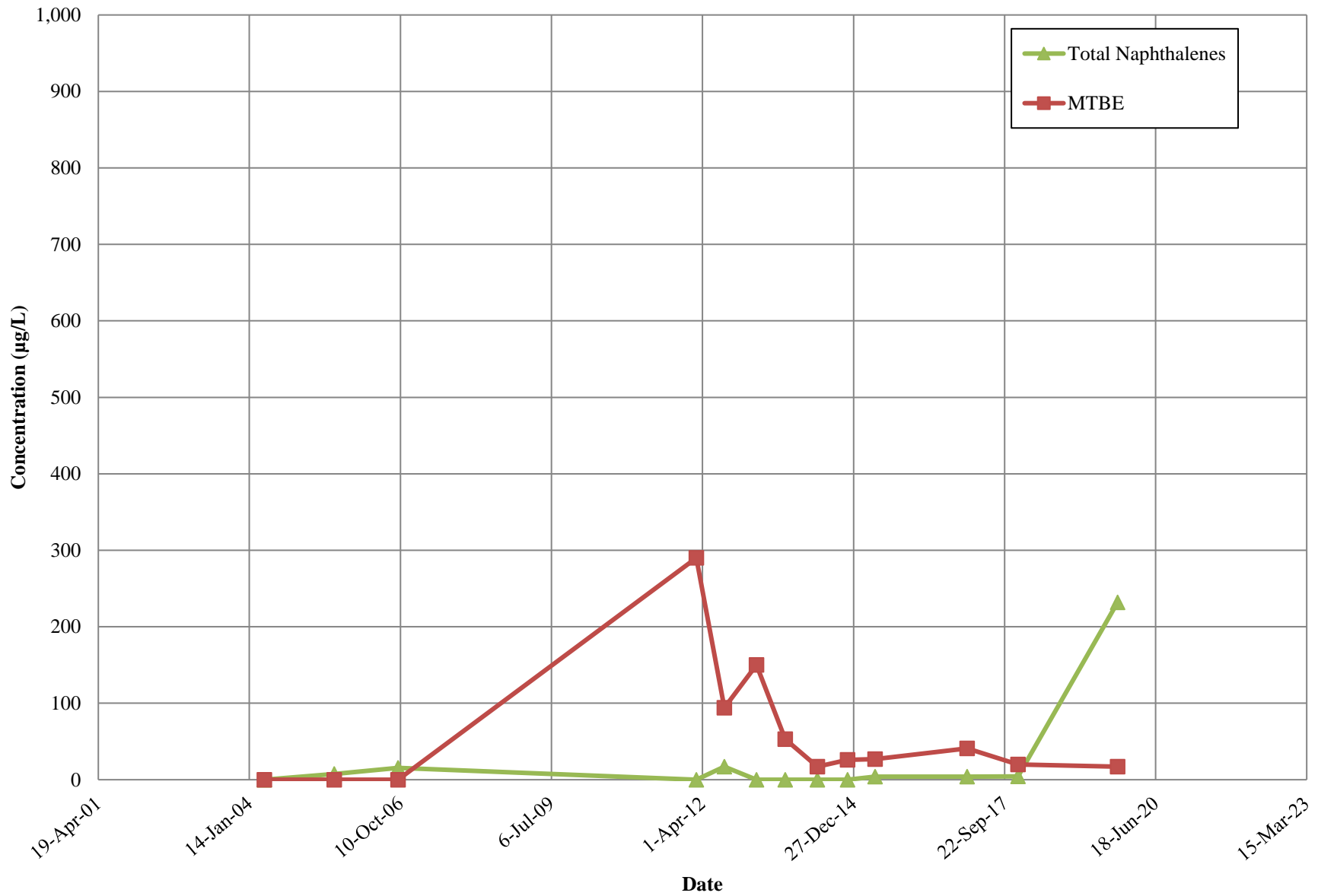
**APPENDIX C
HYDROGRAPHS**

HYDROGRAPH FOR SITE MONITORING WELLS ATEX 213, ALBUQUERQUE, NEW MEXICO

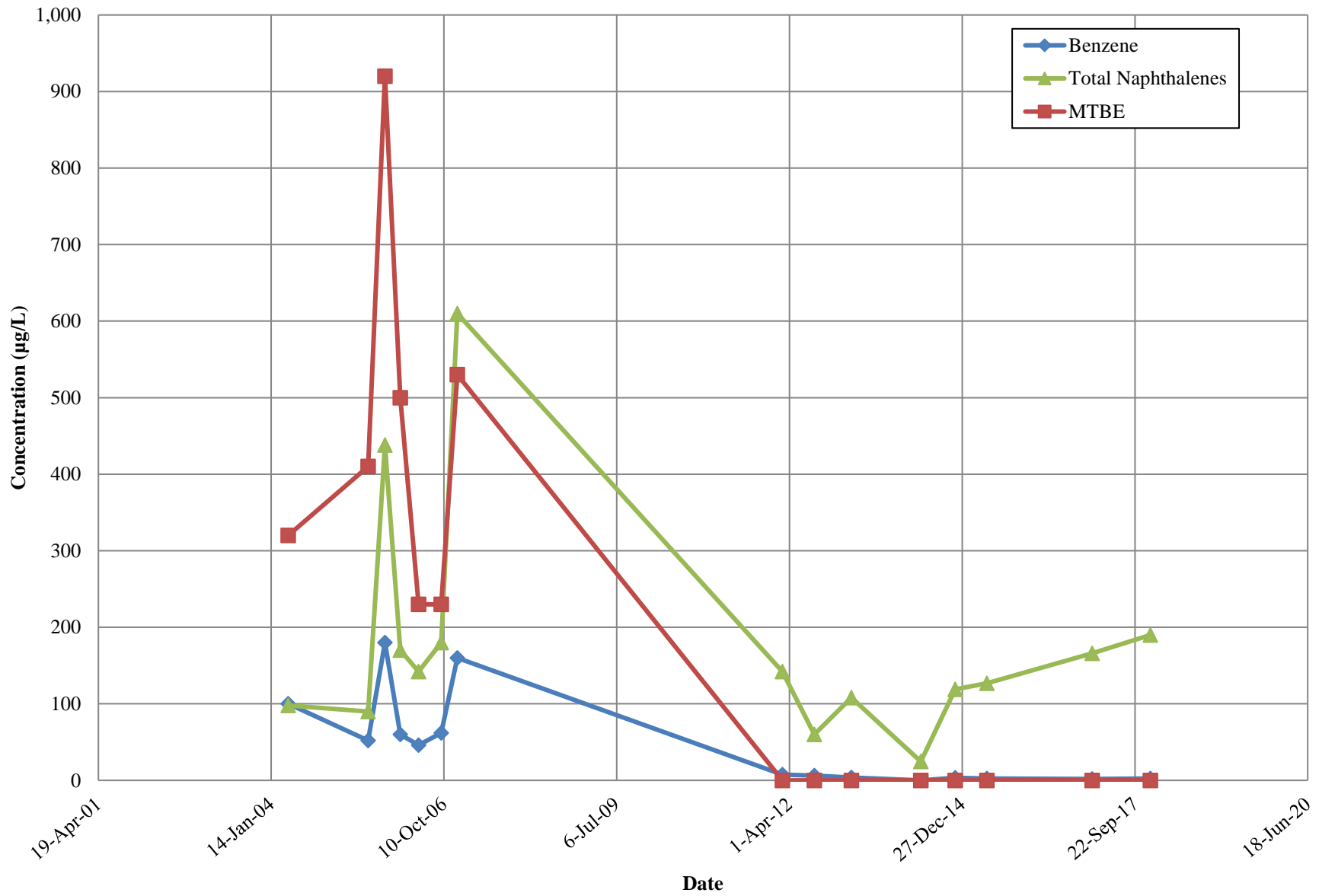


**APPENDIX D
CONTAMINANT CONCENTRATION TRENDS**

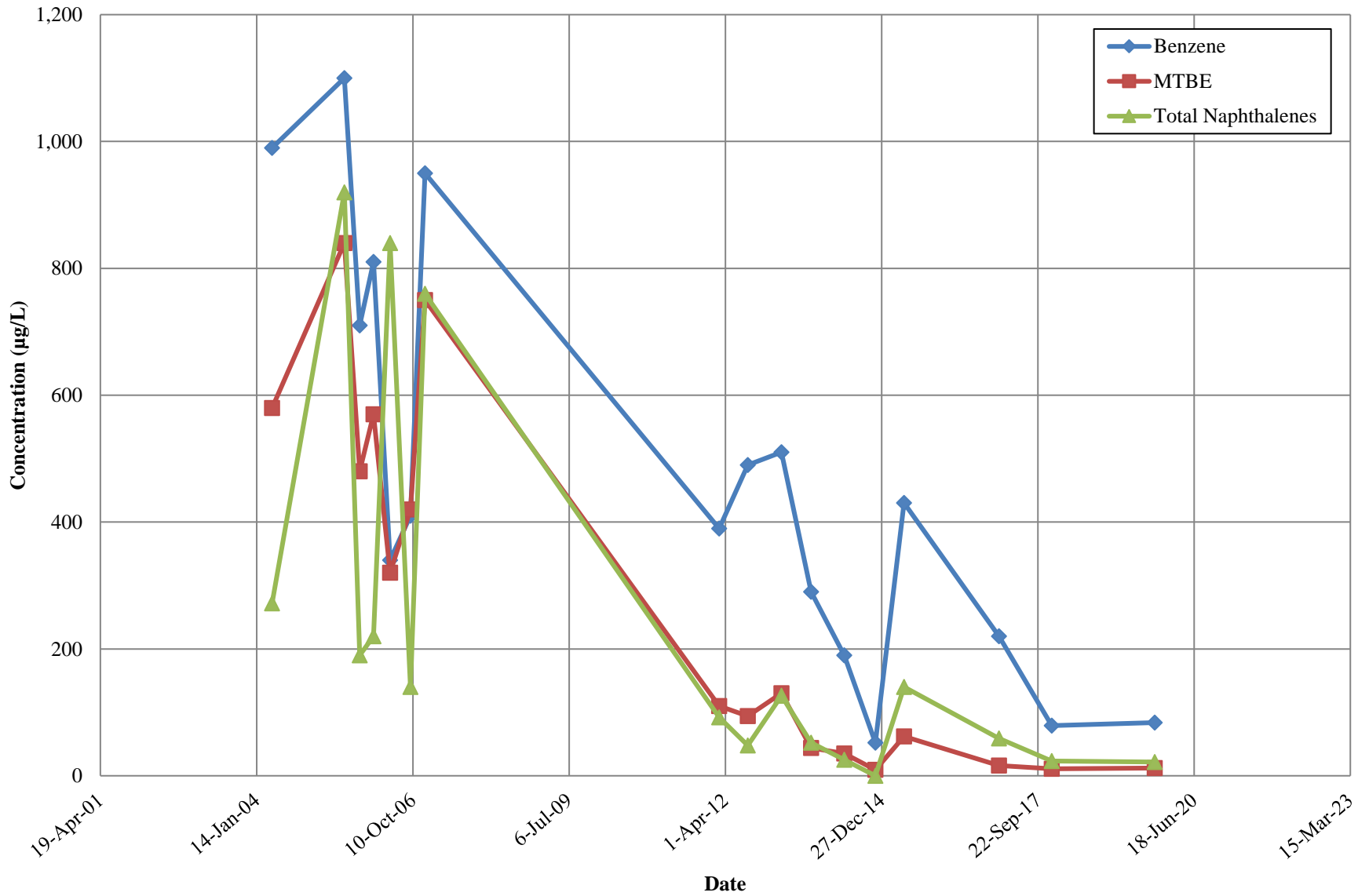
**CONCENTRATION TRENDS IN BB-2
ATEX 213, ALBUQUERQUE, NEW MEXICO**



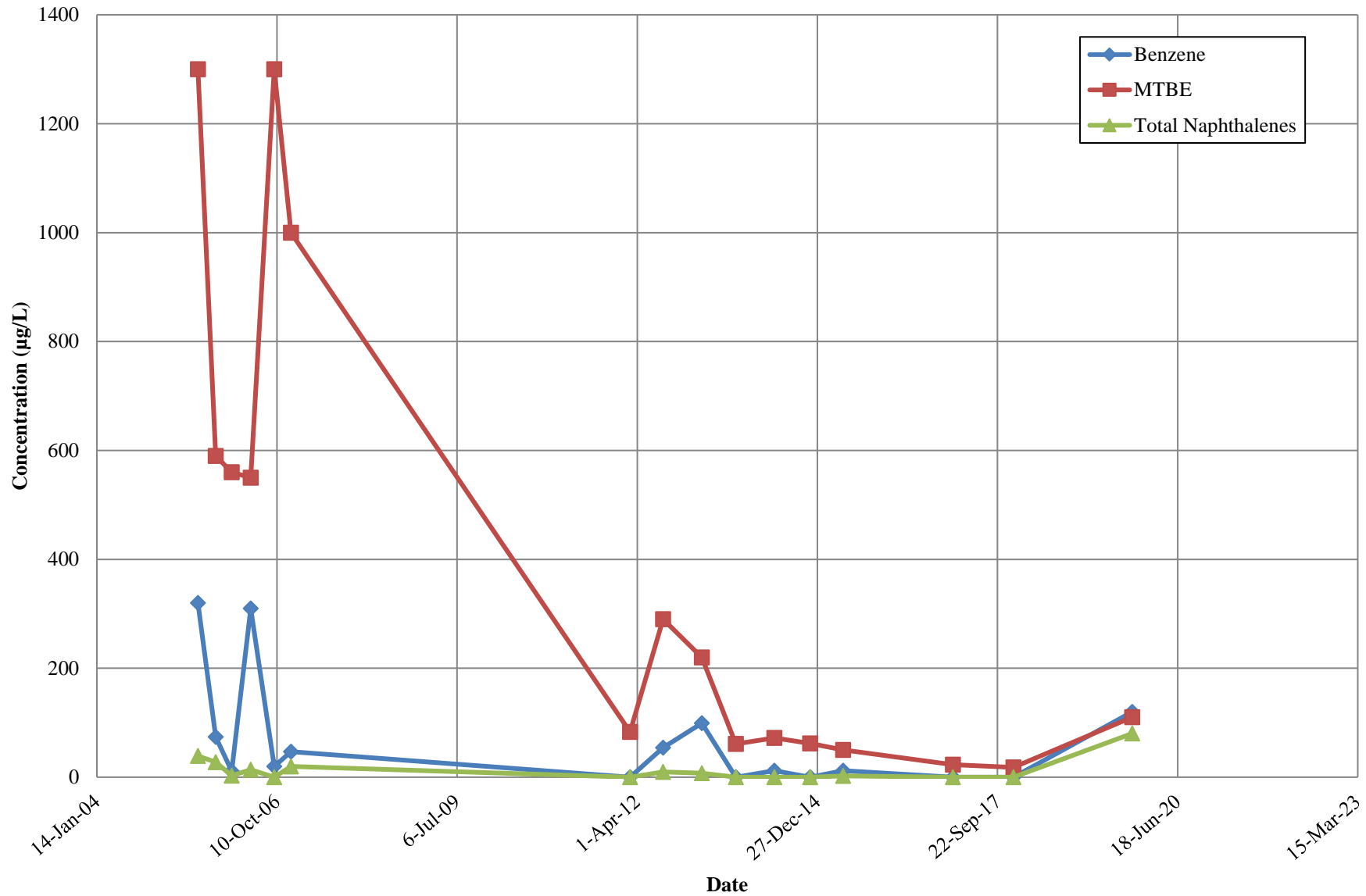
CONCENTRATION TRENDS IN MW-3 ATEX 213, ALBUQUERQUE, NEW MEXICO



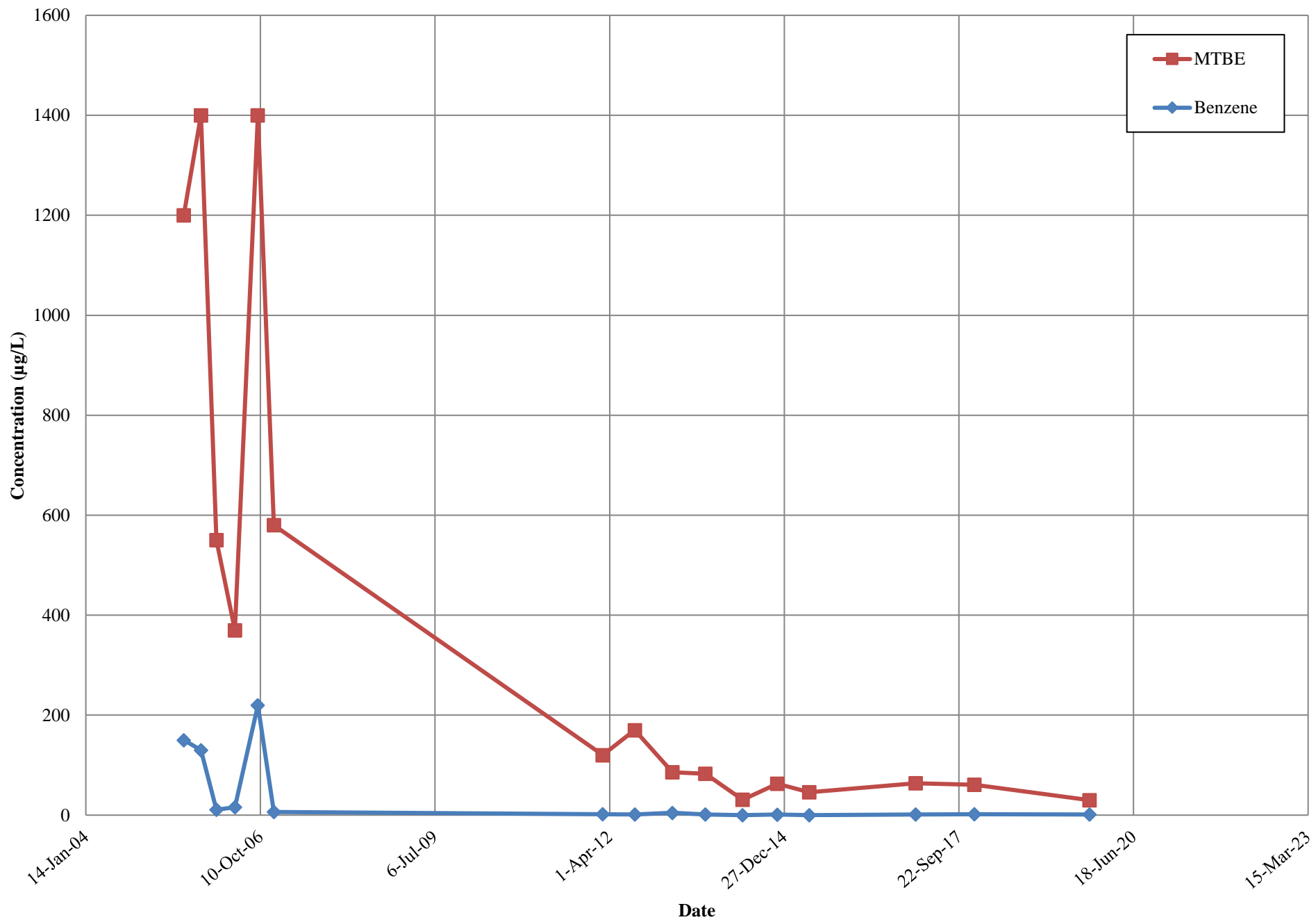
**CONCENTRATION TRENDS IN NMW-1
ATEX 213, ALBUQUERQUE, NEW MEXICO**



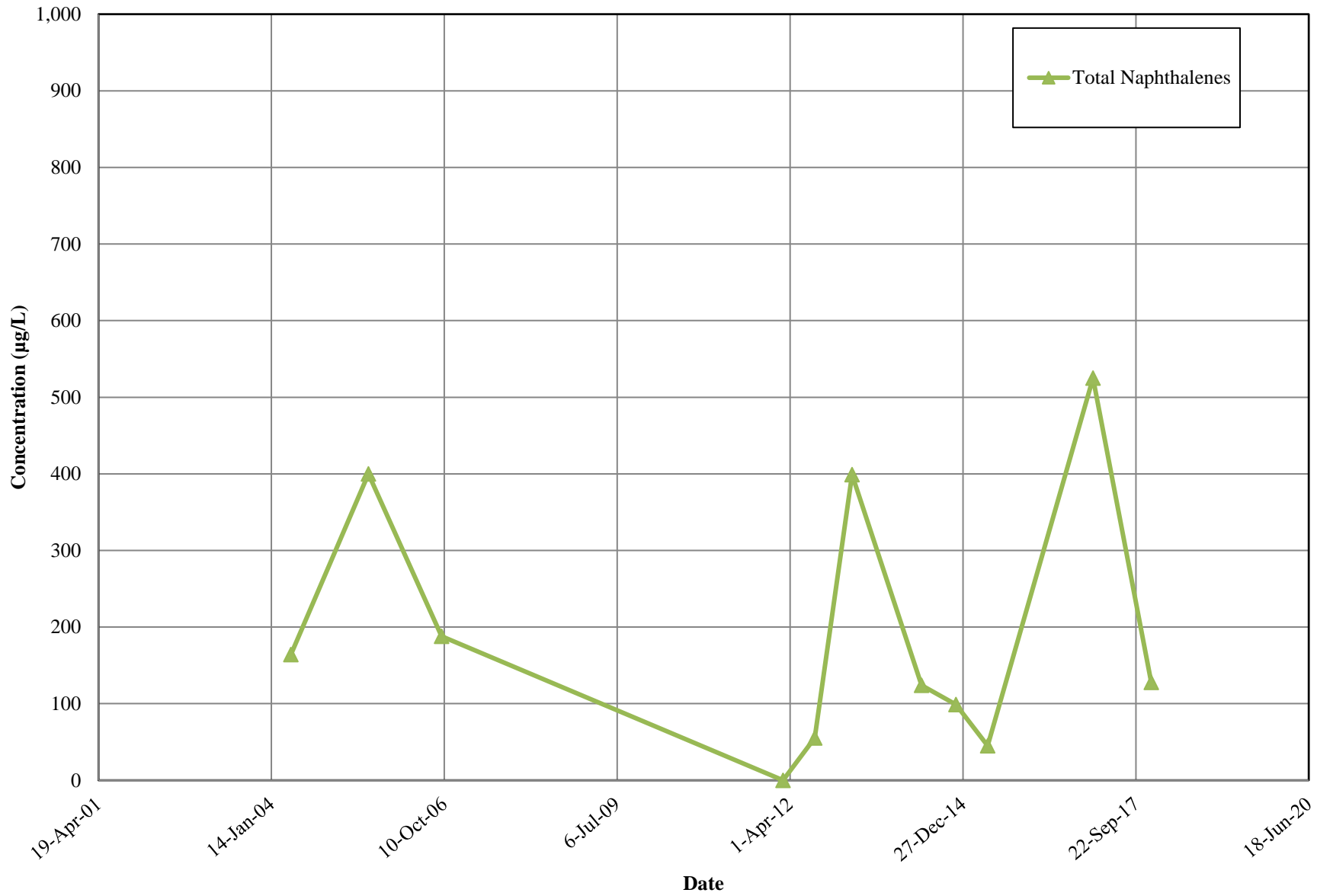
**CONCENTRATION TRENDS IN RNMW-2
ATEX 213, ALBUQUERQUE, NEW MEXICO**



CONCENTRATION TRENDS IN RNMW-3 ATEX 213, ALBUQUERQUE, NEW MEXICO



CONCENTRATION TRENDS IN W-35 ATEX 213, ALBUQUERQUE, NEW MEXICO



**CONCENTRATION TRENDS IN W-36
ATEX 213, ALBUQUERQUE, NEW MEXICO**

